GENESEE COUNTY PLANNING BOARD
ZONING REFERRALS NOTICE OF FINAL ACTION

GCDP Referral ID	**T-17-BAT-9-16**
Review Date	**9/8/2016**
Municipality	**BATAVIA, T.**
Board Name	**PLANNING BOARD**
Applicant's Name	**D.A. Tufts Co. Inc**
Referral Type	**Site Plan Review**
Variance(s)	
Description:	**Site Plan Review to construct a 21,000 sq. ft. (140 x 150 ft.) metal fabrication facility (L&M Specialty Fabrication).**
Location	**E. Saile Dr. and Bank Street Rd., Batavia**
Zoning District	**Industrial (I) District**

PLANNING BOARD DECISION

APPROVAL WITH MODIFICATION(S)

EXPLANATION:

The required modifications are as follows: 1) Any proposed signage be in conformance with the Town of Batavia's zoning regulations, and 2) the applicant obtain documentation from the State Historic Preservation Office (SHPO) as to the project's impacts on archaeological resources. The Short Environmental Assessment Form submitted by the applicant erroneously states that the project is not located in an archaeological sensitive area. With these required modifications, the proposed metal fabrication facility should pose no significant county-wide or inter-community impact.

Felix A. Ottaviano

Director

September 8, 2016

Date

If the County Planning Board disapproved the proposal, or recommends modifications, the referring agency shall NOT act contrary to the recommendations except by a vote of a majority plus one of all the members and after the adoption of a resolution setting forth the reasons for such contrary action. Within 30 days after the final action the referring agency shall file a report of final action with the County Planning Board. An action taken form is provided for this purpose and may be obtained from the Genesee County Planning Department.

SEND OR DELIVER TO:
GENESEE COUNTY DEPARTMENT OF PLANNING
3837 West Main Street Road
Batavia, NY 14020-9404
Phone: (585) 344-2580 Ext. 5467

DEPARTMENT USE ONLY:
GCDP Referral # T-17-BAT-9-16

RECEIVED
Genesee County
Dept. of Planning
8/31/2016

* GENESEE COUNTY * PLANNING BOARD REFERRAL

Required According to:
GENERAL MUNICIPAL LAW ARTICLE 12B, SECTION 239 L, M, N
(Please answer ALL questions as fully as possible)

1. REFERRING BOARD(S) INFORMATION

Board(s) Town of Batavia Planning Board
Address 3833 West Main Street Road
City, State, Zip Batavia, NY 14020
Phone (585) 343 - 1729 Ext. 222

2. APPLICANT INFORMATION

Name D.A Tufts Co. Inc
Address Saile Drive and Bank Street Road
City, State, Zip Batavia, NY, 14020
Phone (585) 344 - 1286 Ext. Email dtufts@datufts.com

MUNICIPALITY: ☐ City ☒ Town ☐ Village of Batavia

3. TYPE OF REFERRAL: (Check all applicable items)

- ☐ Area Variance
- ☐ Use Variance
- ☐ Special Use Permit
- ☒ Site Plan Review
- ☐ Zoning Map Change
- ☐ Zoning Text Amendments
- ☐ Comprehensive Plan/Update
- ☐ Other:
- Subdivision Proposal
  - ☐ Preliminary
  - ☐ Final

4. LOCATION OF THE REAL PROPERTY PERTAINING TO THIS REFERRAL:

A. Full Address Saile Drive and Bank Street Road
B. Nearest intersecting road Saile or Bank (Corner lot)
C. Tax Map Parcel Number 5.-1-67.11
D. Total area of the property 30 Acres Area of property to be disturbed 5.5 acres
E. Present zoning district(s) Industrial

5. REFERRAL CASE INFORMATION:

A. Has this referral been previously reviewed by the Genesee County Planning Board?

☒ NO ☐ YES If yes, give date and action taken

B. Special Use Permit and/or Variances refer to the following section(s) of the present zoning ordinance and/or law

C. Please describe the nature of this request Construct a 21,000 sq ft metal fabricating building

6. ENCLOSURES – Please enclose copy(s) of all appropriate items in regard to this referral

- ☒ Local application
- ☒ Site plan
- ☐ Subdivision plot plans
- ☒ SEQR forms
- ☐ Zoning text/map amendments
- ☐ Location map or tax maps
- ☐ Elevation drawings
- ☒ Agricultural data statement
- ☐ New or updated comprehensive plan
- ☐ Photos
- ☐ Other:

If possible, please provide a reduced version or digital copy of any supporting documentation larger than 11 x 17. Email to planning@co.genesee.ny.us

7. CONTACT INFORMATION of the person representing the community in filling out this form (required information)

Name Daniel J Lang Title CEO/ZEO Phone (585) 343 - 1729 Ext. 222
Address, City, State, Zip 3833 West Main Street Rd Batavia NY 14020 Email dlang@townofbatavia.com

TOWN VILLAGE CITY OF Batavia Application # TBD
(circle one)

Agricultural Data Statement

Date 08/31/2016

Instructions: This form must be completed for any application for a special use permit, site plan approval, use variance or a subdivision approval requiring municipal review that would occur on property within 500 feet of a farm operation located in a NYS Dept. of Ag & Markets certified Agricultural District.

Applicant	Owner if Different from Applicant
Name: D.A Tufts Co. Inc. Address: Ellicott Street Road Batavia NY 14020	Name: Saile Drive Properties Address: Corner of Saile and Bank Bataiva NY 14020

1. Type of Application: ☐Special Use Permit; ☑Site Plan Approval ; ☐Use Variance; ☐Subdivision Approval
   (circle one or more)

2. Description of proposed project: 21,000 square foot metal fabricating shop.

3. Location of project: Address: Corner of Saile and Bank
   Tax Map Number (TMP) 5.-1-67.11

4. Is this parcel within an Agricultural District? ☑NO ☐YES (Check with your local assessor if you do not know)
5. If YES, Agricultural District Number_____
6. Is this parcel actively farmed? ☐NO ☑YES
7. List all farm operations within 500 feet of your parcel. Attach additional sheets if necessary.

Name: CY Properties Address: 6465 Transit Rd Elba NY 14058 Is this parcel actively farmed? ☐NO ☑YES	Name: Evangilistc Christian Comm Church Address: 8050 Bank St Rd Batavia NY 14020 Is this parcel actively farmed? ☐NO ☑YES
Name: R Stephen Hawly Address: PO Box 189 Byron NY 14422 Is this parcel actively farmed? ☐NO ☑YES	Name: Everett F West Address: Is this parcel actively farmed? ☐NO ☑YES

Signature of Applicant

Signature of Owner (if other than applicant)

Reviewed by: Signature of Municipal Official

8-31-16
Date

NOTE TO REFERRAL AGENCY: County Planning Board review is required. A copy of the Agricultural Data Statement must be submitted along with the referral to the County Planning Department.

Building and Zoning Application Permit No._____

Town of Batavia 3833 West Main Rd. Batavia NY 14020 PH. 585-343-1729

Date S / 2 / 16 Zone____ Flood Zone____ Wellhead Protection ____ Corner Lot____

New Construction ☑ Fence ☐ Pond ☐ Sign ☐ Alteration(s) ☐ Addition ☐ Demolition ☐

Accessory Bldg. ☐ Mobile Home ☐ Fill Permit ☐ Home Occupation ☐ Land Separation ☐ Site Plan Approval ☑

Special Use Permit ☐ Temporary Use ☐ Subdivision ☐ Zoning Variance Request ☐ Other ☐ Specify:_____

Tax Map No. 5.-1-67.11

Owners Name Saile Drive Properties, LLC Phone No. (585) 813-3981

Address_____ Project Road Width 66 ft

Applicants Name D.A. Tufts Co., Inc. Project Address Saile Dr. & Bank Streets

E Mail Address dtufts@datufts.com Phone No (585) 344-1286

Description of Project: Construct a 21,000 s.f. metals fabricating building with offices.

Existing Use cropland Proposed Use Factory Industrial F-2 Low Hazard

Estimated Cost Building $800,000 Plumbing yes Mechanical yes Miscellaneous_____

SEQR CLASSIFICATION Type 1 ☐ Type 2 ☐ Unlisted ☐

Review completed by Planning Board ☐_____ Zoning Board of Appeals ☐_____

Permit Fee $_____ **Application Date** ___/___/___ **Permit Expires On** ___/___/___

Issuing Officer _____ **Date**___/___/___

IN SIGNING THIS DOCUMENT I HEARBY GIVE THE RIGHT OF AN ON SITE INSPECTION TO THE TOWN OF BATAVIA CODE ENFORCEMENT OFFICIAL OR THEIR DESIGNE. ALL PROVISIONS OF LAWS AND ORDINANCES GOVERNING THIS TYPE OF WORK WILL BE COMPLIED WITH WHETHER SPECIFIED HEREIN OR NOT. THE GRANTING OF A PERMIT DOES NOT PRESUME TO GIVE AUTHORITY TO VIOLATE OR CANCEL THE PROVISIONS OF ANY OTHER STATE OR LOCAL LAW REGULATING CONSTRUCTION OR THE PREFORMANCE OF CONSTRUCTION.

I, DAVID TUFTS, as Owner or Authorized Agent hereby declare that the statements and information on the foregoing application are true and accurate, to the best of my knowledge.

David Tufts 8-3-16

Signature of Owner or Authorized Agent Date

Short Environmental Assessment Form
Part 1 - Project Information

Instructions for Completing

Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 - Project and Sponsor Information

Saile Drive, LLC

Name of Action or Project:

L & M Specialty Fabrication

Project Location (describe, and attach a location map):

South West Corner of East Saile Drive and Bank Street Road, Batavia, NY

Brief Description of Proposed Action:

Construct a 21,000 s.f. specialties fabrication facility on vacant land.

Name of Applicant or Sponsor:	Telephone: (585) 344-1286
D. A. Tufts Co., Inc.	E-Mail: dtufts@datufts.com

Address:

4857 Ellicott Street

City/PO:	State:	Zip Code:
Batavia	NY	14020

	NO	YES
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.	☑	☐
2. Does the proposed action require a permit, approval or funding from any other governmental Agency? If Yes, list agency(s) name and permit or approval:	☑	☐

3.a. Total acreage of the site of the proposed action? 30.00 acres

b. Total acreage to be physically disturbed? 5.5 acres

c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 30.00 acres

4. Check all land uses that occur on, adjoining and near the proposed action.

☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☑ Commercial ☐ Residential (suburban)

☐ Forest ☑ Agriculture ☐ Aquatic ☐ Other (specify): _____

☐ Parkland

	NO	YES	N/A
5. Is the proposed action.			
a. A permitted use under the zoning regulations?	☐	✓	☐
b. Consistent with the adopted comprehensive plan?	☐	✓	☐

	NO	YES
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	☐	✓
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify:	✓	☐
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	✓	☐
b. Are public transportation service(s) available at or near the site of the proposed action?	✓	☐
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action?	✓	☐
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: Project Envelope, Interior Lighting, Exterior Lighting and Mechanical Systems all exceed energy code requirements.	☐	✓
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water:	☐	✓
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: Engineered raised bed septic system.	✓	☐
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?	✓	☐
b. Is the proposed action located in an archeological sensitive area?	✓	☐
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	☐	✓
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:	✓	☐

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:
☐ Shoreline ☐ Forest ☑ Agricultural/grasslands ☐ Early mid-successional
☐ Wetland ☐ Urban ☐ Suburban

	NO	YES
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	✓	☐
16. Is the project site located in the 100 year flood plain?	✓	☐
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, a. Will storm water discharges flow to adjacent properties? ☑ NO ☐ YES	☐	✓
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: ☐ NO ☑ YES Present storm water culvert heading north at south west corner of the intersection of East Saile Dr and Bank St Rd.		

	NO	YES
18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size: Drainage swales with check dams to slow rate of run-off	☐	☑
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe:	☑	☐
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe:	☑	☐

I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

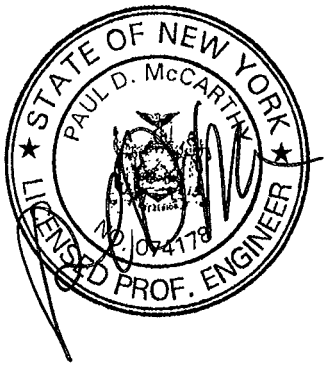
Applicant/sponsor name: R. A. Tufts Co Inc. Date: 8-31-16

Signature: Paul Tufts

PRINT FORM

STORMWATER POLLUTION PREVENTION PLAN

L & M SPECIALTY FABRICATION
EAST SAILE DRIVE
TOWN OF BATAVIA, GENESEE COUNTY
NEW YORK 14020



Original: August 29, 2016, 2016

Prepared By: Paul D McCarthy, P.E.
PDM Engineers
115 Grandview Terrace
Batavia, NY 14020
Telephone: (585) 345-1159
Email: pdmeng@empireaccess.net

STORMWATER POLLUTION PREVENTION PLAN
L & M SPECIALTY FABRICATION
EAST SAILE DRIVE
TOWN OF BATAVIA, GENESEE COUNTY NEW YORK 14020

INDEX

General
Description of Project
Existing Site Conditions
Proposed Stormwater System
NYS DEC Requirements
Existing Runoff
Developed Runoff
Runoff Reduction
Developed Runoff using Runoff Reduction
Stormwater Detention and Collection
Stormwater Treatment
Conclusions
References

Pollution Prevention Measures
On-Site Construction & Waste Materials Storage
Spills Management
Location of Erosion and Sedimentation Control
Erosion and Sedimentation Controls Details
Topsoil or Spoil Stockpiling
Post-Construction Stormwater Control
Purpose of Post-Construction Controls
Location of Post-Construction Stormwater Control
Site Assessment and Inspection
Maintaining Records
Final Inspection
Stabilization

APPENDICES

A. Soils Map, Existing Site Conditions Drainage Area Map, and Peak Stormwater Discharge Calculations
B. Developed Site Conditions Drainage Area Map and Peak Stormwater Discharge Calculations
C. Developed Site Conditions Drainage Area Map using Runoff Reduction and Peak Stormwater Discharge Calculations using Runoff Reduction
D. Check Dam Discharge Calculations

STORMWATER POLLUTION PREVENTION PLAN
L & M SPECIALTY FABRICATION
EAST SAILE DRIVE
TOWN OF BATAVIA, GENESEE COUNTY, NEW YORK 12010

General

Since the estimated area of disturbance associated with this expansion project, 5.5-acres, is greater than 1-acre, it is required that an application for coverage under the State Pollutant Discharge Elimination System (SPDES) General Permit for Construction Activities (GP-0-15-002) be prepared.

Description of Project

L & M Specialty Fabrication plans to build a 21,000 sq ft metal fabricating building with a 46,260 sq ft gravel parking and driveway area. This entire property is approximately 30.0 acres. The site is located at the southwest corner of the intersection of Bank Street Road and East Saile Drive.

Existing Site Conditions

The entire site is 30.0 acres. The existing site appears to have three surface flow drainage paths, West, South and East to a 12" culvert at the intersection of Bank Street Road and Saile Drive.

The entire existing site consists of cultivated land.

The soils in the drainage area have been classified as Aurora silt loam (AuA, AuB), Benson Soils (BeB), Cazenovia silt loam (CeB), Lakemont silty clay loam (La), and Ovid Silt loam (OvA).

Aurora silt loam is a moderately well drained soil to a depth of 15 to 30-inches, is in hydrologic group C, and covers approximately 38% of the drainage area.

Benson Soils is a well drained soil to a depth of 10 to 20-inches, is in hydrologic group D, and covers approximately 24% of the drainage area.

Cazenovia silt loam is a well drained or moderately well drained soil to a depth of 12 to 15-inches, is in hydrologic group B, and covers approximately 23% of the drainage area.

Lakemont silty clay loam is a poorly drained soil to a depth of 12 to 18-inches, is in hydrologic group D, and covers approximately 1% of the drainage area.

Ovid Silt loam is a poorly drained soil to a depth of 24 to 36-inches, is in hydrologic group C, and covers approximately 14% of the drainage area.

According to the USDA "Soil Survey, Genesee County, New York" and observed test holes bedrock is approximately 2 - 6 feet below grade.

The data on the soils is from the U.S. Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey 2.1 – National Cooperative Soil Survey.

Proposed Stormwater System

This report provides the calculations necessary to design a stormwater collection system to control precipitation runoff following the site development. The New York State Department of Transportation and NYS DEC requires that the developed condition peak runoff cannot exceed the pre-developed condition peak runoff.

NYS DEC Requirements

Hydrologic and hydraulic analysis are conducted to address four distinct sizing criteria for stormwater management practices. The four criteria are as follows:

- Meeting pollutant removal goals.
- Reducing channel erosion.
- Preventing overbank flooding
- Helping to control extreme flood events

In New York State, a unified approach has been established for addressing these criteria. Water quality objectives are met by employing practices that will capture and treat 90% of the average annual stormwater runoff volume (water quality volume, WQv). The water quality volume is directly related to the amount of impervious surface created at the site. Additionally, water quality practices such as pretreatment units shall be capable of 80% TSS removal and 40% TP removal.

Overbank flooding is minimized by controlling the peak discharge from the 10-year storm event to pre-development flow rates during the same storm event. Extreme floods are minimized by controlling the peak discharge from the 100-year storm event to the pre-development flow rates during the same storm event.

Existing Runoff

4.979 acres of the site surface flows to the West. The runoff coefficients and areas were used to develop a weighted runoff coefficient for the existing site conditions. The weighted runoff coefficient for the existing site conditions was calculated to be roughly 84. A time of concentration was calculated for stormwater accumulation. The longest flow path for stormwater was estimated to take roughly 13 minutes. Because the site is more than 3 acres, TR-20 is used to calculate peak stormwater flows. Table 1 summarizes the existing site condition peak stormwater flow to the West. Further calculation details are available in Appendix A.

Table 1
Existing Site Conditions – Surface Flow to the West
Rainfall Intensity and Estimated Peak Storm Flow

Storm Event (24-hour)	Precipitation Intensity (in)	Peak Existing Conditions Estimated Flow (cfs)
1-Year	2.10	5.55
2-Year	2.50	7.66
10-Year	3.60	13.90
100-Year	4.80	21.01

in – inches in 24 hours
cfs – cubic feet per second
T_c – time of concentration was estimated to be roughly 13 minutes
Weighted runoff coefficient – 84

4.844 acres of the site surface flows to the South. The runoff coefficients and areas were used to develop a weighted runoff coefficient for the existing site conditions. The weighted runoff coefficient for the existing site conditions was calculated to be roughly 84. A time of concentration was calculated for stormwater accumulation. The longest flow path for stormwater was estimated to take roughly 46 minutes. Because the site is more than 3 acres, TR-20 is used to calculate peak stormwater flows. Table 2 summarizes the existing site condition peak stormwater flow to the South. Further calculation details are available in Appendix A.

Table 2
Existing Site Conditions – Surface Flow to the South
Rainfall Intensity and Estimated Peak Storm Flow

Storm Event (24-hour)	Precipitation Intensity (in/ 24 hr)	Peak Existing Conditions Estimated Flow (cfs)
1-Year	2.10	4.79
2-Year	2.50	6.63
10-Year	3.60	12.08
100-Year	4.80	18.31

in/24 hr – inches in 24 hours
cfs – cubic feet per second
T_c – time of concentration was estimated to be roughly 46 minutes
Weighted runoff coefficient – 84

20.176 acres of the site surface flows to the East. The runoff coefficients and areas were used to develop a weighted runoff coefficient for the existing site conditions. The weighted runoff coefficient for the existing site conditions was calculated to be roughly 84. A time of concentration was calculated for stormwater accumulation. The longest flow path for stormwater was estimated to take roughly 46 minutes. Because the site is more than 3 acres, TR-20 is used to calculate peak stormwater flows. Table 3 summarizes the existing site condition peak stormwater flow to the East. Further calculation details are available in Appendix A.

Table 3
Existing Site Conditions – Surface Flow to the East
Rainfall Intensity and Estimated Peak Storm Flow

Storm Event (24-hour)	Precipitation Intensity (in)	Peak Existing Conditions Estimated Flow (cfs)
1-Year	2.10	10.12
2-Year	2.50	14.16
10-Year	3.60	26.20
100-Year	4.80	40.10

in – inches in 24 hours
cfs – cubic feet per second
T_c – time of concentration was estimated to be roughly 46 minutes
Weighted runoff coefficient – 84

Developed Runoff

4.979 acres of the site surface flows to the West. The runoff coefficients and areas were used to develop a weighted runoff coefficient for the developed site conditions. The weighted runoff coefficient for the developed site conditions was calculated to be roughly 84. A time of concentration was calculated for stormwater accumulation. The longest flow path for stormwater was estimated to take roughly 13 minutes. Because the site is more than 3 acres, TR-20 is used to calculate peak stormwater flows. Table 4 summarizes the developed site condition peak stormwater flow to the West. Further calculation details are available in Appendix A.

Table 4
Developed Site Conditions – Surface Flow to the West
Rainfall Intensity and Estimated Peak Storm Flow

Storm Event (24-hour)	Precipitation Intensity (in)	Peak Developed Conditions Estimated Flow (cfs)
1-Year	2.10	5.55
2-Year	2.50	7.66
10-Year	3.60	13.90
100-Year	4.80	21.01

in – inches in 24 hours
cfs – cubic feet per second
T_c – time of concentration was estimated to be roughly 13 minutes
Weighted runoff coefficient – 84

4.844 acres of the site surface flows to the South. The runoff coefficients and areas were used to develop a weighted runoff coefficient for the developed site conditions. The weighted runoff coefficient for the developed site conditions was calculated to be roughly 84. A time of concentration was calculated for stormwater accumulation. The longest flow path for stormwater was estimated to take roughly 46 minutes. Because the site is more than 3 acres, TR-20 is used to calculate peak stormwater flows. Table 5 summarizes the developed site condition peak stormwater flow to the South. Further calculation details are available in Appendix A.

Table 5
Developed Site Conditions – Surface Flow to the South
Rainfall Intensity and Estimated Peak Storm Flow

Storm Event (24-hour)	Precipitation Intensity (in/ 24 hr)	Peak Developed Conditions Estimated Flow (cfs)
1-Year	2.10	4.79
2-Year	2.50	6.63
10-Year	3.60	12.08
100-Year	4.80	18.31

in/24 hr – inches in 24 hours
cfs – cubic feet per second
T_c – time of concentration was estimated to be roughly 46 minutes
Weighted runoff coefficient – 84

20.176 acres of the site surface flows to the East. The runoff coefficients and areas were used to develop a weighted runoff coefficient for the developed site conditions. The weighted runoff coefficient for the developed site conditions was calculated to be roughly 83. A time of concentration was calculated for stormwater accumulation. The longest flow path for stormwater was estimated to take roughly 43 minutes. Because the site is more than 3 acres, TR-20 is used to calculate peak stormwater flows. Table 6 summarizes the developed site condition peak stormwater flow to the East. Further calculation details are available in Appendix A.

Table 6
Developed Site Conditions – Surface Flow to the East
Rainfall Intensity and Estimated Peak Storm Flow

Storm Event (24-hour)	Precipitation Intensity (in)	Peak Developed Conditions Estimated Flow (cfs)
1-Year	2.10	9.94
2-Year	2.50	14.10
10-Year	3.60	26.63
100-Year	4.80	41.21

in – inches in 24 hours
cfs – cubic feet per second
T_c – time of concentration was estimated to be roughly 43 minutes
Weighted runoff coefficient – 83

Since the drainage areas flowing to the West and South are not being developed, peak storm water flows to the West and South are the same under the developed site conditions as under the existing site conditions. Therefore, the storm water flow in these areas will not be considered for possible storm water management.

Drainage Area to the East Runoff Reduction

Developed impervious area to be removed:
Gravel driveway reduction = 8,102 sq ft or 0.186 acres
Total impervious area removed is 0.186-acres
Preservation of cultivated land = 15.278-acers

Developed Runoff using Runoff Reduction

16.268 acres of the site surface flows to the East. The runoff coefficients and areas were used to develop a weighted runoff coefficient for the developed site conditions. The weighted runoff coefficient for the developed site conditions was calculated to be roughly 83. A time of concentration was calculated for stormwater accumulation. The longest flow path for stormwater was estimated to take roughly 45 minutes. Because the site is more than 3 acres, TR-20 is used to calculate peak stormwater flows. Table 7 summarizes the developed site condition peak stormwater flow to the

East. Further calculation details are available in Appendix A.

Table 7
Developed Site Conditions – Surface Flow to the East
Rainfall Intensity and Estimated Peak Storm Flow

Storm Event (24-hour)	Precipitation Intensity (in)	Peak Developed Conditions Estimated Flow (cfs)
1-Year	2.10	5.30
2-Year	2.50	7.94
10-Year	3.60	15.98
100-Year	4.80	25.10

in – inches in 24 hours
cfs – cubic feet per second
T_c – time of concentration was estimated to be roughly 45 minutes
Weighted runoff coefficient – 83

1.944 acres of the site surface flows to the East through a 226' long vegetated swale to a stone check dam. The runoff coefficients and areas were used to develop a weighted runoff coefficient for the developed site conditions. The weighted runoff coefficient for the developed site conditions was calculated to be roughly 80. A time of concentration was calculated for stormwater accumulation. The longest flow path for stormwater was estimated to take roughly 20 minutes. Because the site is more than 3 acres, TR-20 is used to calculate peak stormwater flows. Table 8 summarizes the developed site condition peak stormwater flow to the East. Further calculation details are available in Appendix A.

Table 8
Developed Site Conditions – Surface Flow to the East w/Stone Check Dam
Rainfall Intensity and Estimated Peak Storm Flow

Storm Event (24-hour)	Precipitation Intensity (in)	Peak Developed Conditions Estimated Flow (cfs)
1-Year	2.10	1.08
2-Year	2.50	1.66
10-Year	3.60	3.40
100-Year	4.80	5.50

in – inches in 24 hours
cfs – cubic feet per second
T_c – time of concentration was estimated to be roughly 20 minutes
Weighted runoff coefficient – 80

1.964 acres of the site surface flows to the East through a 368' long vegetated swale to a stone check dam. The runoff coefficients and areas were used to develop a weighted runoff coefficient for the developed site conditions. The weighted runoff coefficient for the developed site conditions was calculated to be roughly 86. A time of concentration was calculated for stormwater accumulation. The longest flow path for stormwater was estimated to take roughly 17 minutes. Because the site is

more than 3 acres, TR-20 is used to calculate peak stormwater flows. Table 9 summarizes the developed site condition peak stormwater flow to the East. Further calculation details are available in Appendix A.

Table 9
Developed Site Conditions – Surface Flow to the East w/Stone Check Dam
Rainfall Intensity and Estimated Peak Storm Flow

Storm Event (24-hour)	Precipitation Intensity (in)	Peak Developed Conditions Estimated Flow (cfs)
1-Year	2.10	1.65
2-Year	2.50	2.32
10-Year	3.60	4.30
100-Year	4.80	6.56

in – inches in 24 hours
cfs – cubic feet per second
T_c – time of concentration was estimated to be roughly 17 minutes
Weighted runoff coefficient – 86

Stormwater Collection and Detention

A storm water conveyance system consisting of grass filter strips and two vegetated swales will transport storm water to a stone check dam detention area located approximately 300' east of the new building. The check dam outlet was designed to provide treatment and to detain developed condition storm water flow rates to existing condition flow rates.

The storm water treatment/detention system will consist of a 7,367 cu ft stone check dam detention area. Two 4.0-inch outlet orifices will be used to restrict the developed condition storm water flows to the existing condition flow rates. Table 6 summarizes the existing condition storm flows, post-developed condition flow rates, and storage elevations. Appendix D contains storm water routing, detention, and discharge calculations.

The New York State Department of Transportation (NYS DOT) and the NYS DEC requires that the developed site peak discharge will not exceed the existing peak discharge for the 1, 2, 10, and 100-year storm events. Because the site is less than 3 acres, the Rational Method was used to calculate peak stormwater flows. Table 10 summarizes the Rational Method calculation results. Further calculations are available in Appendices.

Table 10
Peak Flow to East
Existing vs. Developed Site Condition Peak Flow Rates, and Storage Elevations
(Developed Condition Storm Flow Rates Controlled by)

Storm Event	Existing Flow (cfs)	Developed Flow w/ no RR (cfs)	Check Dam Flow to the East (cfs)	Direct Flow to the East (cfs)	Total Flow to the East (cfs)	Maximum WSE (ft)
1-Year	10.12	9.97	1.81	5.30	7.11	902.17

2-Year	14.16	14.10	2.41	7.94	10.35	903.40
10-Year	26.20	26.63	3.46	15.98	19.44	902.92
100-Year	40.10	41.21	8.73	25.10	33.83	903.51

cfs – cubic feet per second
WSE – water surface elevation
ft – feet above mean sea level
flood elevation of the Pocket Pond berm is elevation 903.50

Stormwater Treatment

Stormwater is treated by xx sq ft of grass filter area and xx' of vegetated swale
Required Water Quality Volume is 235 cu ft, the Check Dam Volume is 6,773 cu ft

Conclusions

An analysis was conducted of the existing and developed site conditions. The 1, 2, 10, and 100-year storm events were used for the evaluation. The developed site will create less peak stormwater flow to the West, South, to the East than the existing conditions using the vegetated swales stormwater conveyance and Stone Check Dam system that was designed to manage peak stormwater flow. The system will control the 1, 2, 10, and 100-year developed condition peak storm flow rates to less than the existing site condition storm flow rates.

References

The data on the soils was obtained from the U.S. Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey 2.1 – National Cooperative Soil Survey.

HydroCAD Software Solutions, LLC, HydroCAD Version 10.00.

Pollution Prevention Measures

Good housekeeping practices are inexpensive, relatively easy to implement, and are often effective in preventing stormwater contamination. Specific activities that should be completed by the contractor include the following:

- Neatly and orderly store any chemicals, pesticides, fertilizers, fuels, etc., that are being stored at the site.
- Regularly dispose of garbage, rubbish, construction waste, and sanitary waste.
- Promptly cleanup any spills of liquid or dry materials that have occurred.
- Cleanup sediments that have been tracked by vehicles or personnel or have been transported by the wind or stormwater to other areas of the site, to adjacent properties, or onto adjacent roadways. This should be done at regular intervals and whenever deemed necessary by the site engineer. For severe sites, an equipment and personnel rinsing pad may be appropriate. The design of the pad should be in a manner to minimize the potential for stormwater contamination and shall be approved by State or local authorities prior to its construction and use.

On-Site Construction & Waste Materials Storage

- Select a designated waste collection area outside.
- Provide an adequate number of containers with lids or covers that can be placed over the containers prior to rainfall.
- When possible, locate containers in a covered area.
- Arrange for waste collection before containers overflow
- If a container does spill, provide cleanup immediately
- Plan for additional containers and more frequent pickups during the demolition phase of construction.
- Make sure that construction waste is collected, removed, and disposed of only at authorized disposal areas.

Spills Management

Construction site supervisors should create and adopt a spill control plan which would include measures to:

- Stop the source of the spill
- Contain the spill.
- Clean up the spill.
- Dispose of materials contaminated by the spill
- Identify and train personnel responsible for spill prevention and control.

The following measures would be appropriate for a spill prevention and response plan:

- Store and handle materials to prevent spills.
    - Tightly seal containers.
    - Make sure all containers are clearly labeled.
    - Stack containers neatly and securely.
    - Where possible, store containers on pallets in a covered area.

- Reduce stormwater contact if there is a spill.
  - Have cleanup procedures clearly posted.
  - Have cleanup materials readily available.
  - Contain any liquid.
  - Stop the source of the spill.
  - Cover spill with absorbent material such as kitty litter or sawdust.
- Dispose of contaminated materials according to the manufacturer's instructions or according to State or local requirements.
- Identify personnel responsible for responding to a spill of toxic or hazardous materials.
  - Provide personnel spill response training.
  - Post names of spill response personnel.
- Keep the spill area well ventilated.
- If necessary, use a private firm that specializes in spill cleanup.

Erosion & Sedimentation Control

An erosion and sedimentation control plan must be prepared for all land development and construction activities when it is determined that soil erosion and sedimentation, if not controlled, may have a significant effect on the environment. Under Phase II, any project disturbing more than one-acre must develop and implement a SWPPP containing both erosion and sedimentation control measures and water quality and water quantity controls.

Based on the factors discussed above, erosion and sedimentation controls were chosen for this project that best fit the unique characteristics of the site. The proposed control measures shall enable planned construction activities to occur without having an adverse effect on the surrounding water resources. All measures proposed conform to the NYS DEC technical standards for erosion and sedimentation control.

Three basic methods are used to control erosion on construction sites: runoff control, soil stabilization, and sedimentation control. The following Runoff Control, Soil Stabilization, and Sediment Control Flow Charts outline the planning process used in selecting control measures for this construction site. Controlling erosion is the first line of defense. Where soil properties and topography of the site make the design of sediment trapping facilities impractical, runoff control and soil stabilization should be used.

Location of Erosion & Sedimentation Controls

The locations of the erosion and sedimentation control devices are shown on Drawing C1.3.

Erosion & Sedimentation Controls Details

The erosion and sedimentation control device details are shown in Appendix C and on Drawing C1.4.

Topsoil or Spoil Stockpiling

Any stockpiling of topsoil or construction spoil material shall be graded with a maximum slope of 1 to 3. A vegetation cover shall be established on any stockpile of topsoil or construction spoil material which remains unused for a period of greater than 15-days.

Post- Construction Stormwater Control

Acceptable practices are divided into five broad groups, including:

- Stormwater ponds – Practices that have either a permanent pool of water or a combination of permanent pool and extended detention capable of treating the water quality volume.
- Stormwater wetlands – Practices that include significant shallow marsh areas, and may also incorporate small permanent pools and extended detention storage to achieve the full water quality volume.
- Infiltration practices – Practices that capture and temporarily store the water quality volume before allowing it to infiltrate into the soil.
- Filtering practices – Practices that capture and temporarily store the water quality volume and pass it through a filter bed of sand, organic matter, soil, or other acceptable treatment media.
- Open channel practices – Practices that are explicitly designed to capture and treat the full water quality volume within dry or wet cells formed within an open channel by check dams or other means.

Within each of these broad categories, select practices are presumed to meet water quality goals when designed, constructed, and maintained in accordance with the NYS DEC's Stormwater Management Design manual.

Purpose of Post-Construction Controls

Post-construction controls are used to minimize the long term effects of stormwater runoff from the developed site and to meet stormwater quality objectives. Practices that are considered acceptable by the NYS DEC meet the following criteria:

- The practices can capture and treat the full water quality volume.
- The practices are capable of 80% total suspended solids removal and 40% total pollutant removal
- The practices have acceptable longevity in the field.
- The practices have a pretreatment mechanism.

One of the most important elements affecting the performance of post-construction stormwater management practices is the proper inspectional and maintenance of the controls.

Location of Post- Construction Stormwater Control

Locations of the post-construction stormwater control practices are shown on Drawing C1.1. Post construction stormwater control details are shown on Drawing C1.2.

Site Assessment and Inspection

Prior to commencement of construction activities, the operator shall have a qualified professional conduct an assessment of the proposed construction site and certify in an inspection report that the appropriate erosion and sedimentation controls described in the SWPPP, and required by the SPDES General Permit for Stormwater Discharges, have been adequately installed or implemented.

A qualified professional is defined as a person knowledgeable in the principles and practice of erosion

and sedimentation controls, such as a licensed professional engineer, Certified Professional in Erosion and Sedimentation Control (CPESC), landscape architect, or soils scientist. Following the start of construction, site inspections shall be conducted by a qualified professional in compliance with NYS DEC requirements. Prior to filing a Notice of Termination or at the end on the permit term, the operator shall have a professional perform a final site inspection, and certify that the site has undergone final stabilization and all temporary erosion and sedimentation controls that are not needed for long term control have been removed.

Throughout the duration of construction, regular site inspections shall be performed. During each inspection the qualified professional shall record the following information:

- On a site map, indicate the extent of all disturbed site areas and drainage pathways. Indicate site areas that are expected to undergo initial disturbance or significant site work within the next 14-day period.
- Indicate on a site map all areas of the site that have undergone temporary or permanent stabilization.
- Indicate all disturbed site areas that have not undergone active site work during the previous 14-day period.
- Inspect all sediment control practices and record the appropriate degree of sediment accumulated as a percentage of the sediment storage volume.
- Inspect all erosion and sediment control practices and record all maintenance requirements such as verifying the integrity of barrier diversion systems (earth berm or silt fencing) and containment systems (sediment basins and sediment traps).
- Identify any evidence of rill or gully erosion occurring on slopes and any loss of stabilized vegetation or seeding/mulching.
- Document any excessive deposition of sediment or ponding water along barrier or diversion systems.
- Record the depth of sediment within containment structures, any erosion near outlet and overflow structures, and verify the ability of rock filters around perforated pipes to pass water.
- List all deficiencies and potential changes to the SWPPP.

Maintaining Records

The operator shall maintain a record of all inspection reports in a site logbook. The site logbook shall be kept on site and be made available to the permitting authority upon request. Prior to the commencement of construction, the operator shall certify in the site logbook that the SWPPP meets all Federal, State, and local erosion and sediment control requirements. The operator shall also retain a copy of the SWPPP required by this permit at the construction site from the date of initiation of construction activities to the date of final stabilization.
The operator shall retain copies of the SWPPP and any other reports submitted in conjunction with this permit, and all records of all data used to complete the NOI to be covered by this permit, for a period of at least three years from the date that the site is finally stabilized
The operator shall also prepare a written summary of its status with respect to compliance with the general permit at a frequency of every three months during which coverage under this permit exists. The summary should address the status of achieving each component of the SWPPP. In addition, on a monthly basis a summary of the site inspection activities shall be posted by the owner in a publicly accessible location at the project site.

Final Inspection

Prior to the Notice of Termination, or at the end of the permit term, the operator shall have a qualified professional perform a final site inspection. The inspector shall certify that the site has undergone final stabilization using either vegetative or structural stabilization methods. Final stabilization means that all soil disturbing activities at the site have been completed and a uniform, perennial vegetative cover with a density of 80% has been established, or equivalent stabilization measures (such as the use of mulches or geotextile) have been employed on all the unpaved areas and areas not covered by permanent structures.

Stabilization

The Operator shall initiate stabilization measures as soon as practicable on portions of the site where construction activities have ceased either temporarily or permanently, but in no case for more than fourteen (14) days after construction activity in that part of the site has ceased.

This requirement does not apply in the following instances:

- Where initiation of stabilization measures by the fourteenth (14th) day after construction activity has either temporarily or permanently ceased is precluded by snow or ice cover or frozen ground conditions. In such instances, stabilization measures shall be implemented as soon as practicable.
- Where construction activity on a part of the Site has ceased temporarily, and earth disturbing activities will resume within twenty-one (21) days, temporary stabilization measures need not be initiated on that part of the Site.

0644089821

NOTICE OF INTENT

New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505

NYR [ ][ ][ ][ ][ ][ ]
(for DEC use only)

Stormwater Discharges Associated with Construction Activity Under State Pollutant Discharge Elimination System (SPDES) General Permit # GP-0-15-002

All sections must be completed unless otherwise noted. Failure to complete all items may result in this form being returned to you, thereby delaying your coverage under this General Permit. Applicants must read and understand the conditions of the permit and prepare a Stormwater Pollution Prevention Plan prior to submitting this NOI. Applicants are responsible for identifying and obtaining other DEC permits that may be required.

-IMPORTANT-

RETURN THIS FORM TO THE ADDRESS ABOVE

OWNER/OPERATOR **MUST SIGN FORM**

Owner/Operator Information

Owner/Operator (Company Name/Private Owner Name/Municipality Name)
Saile Properties, LLC

Owner/Operator Contact Person Last Name (NOT CONSULTANT)
Shuknecht

Owner/Operator Contact Person First Name
Lee

Owner/Operator Mailing Address
6456 Oak Orchard Road

City
Elba

State
NY

Zip
14058 - [ ][ ][ ][ ]

Phone (Owner/Operator)
[ ][ ][ ] - [ ][ ][ ] - [ ][ ][ ][ ]

Fax (Owner/Operator)
[ ][ ][ ] - [ ][ ][ ] - [ ][ ][ ][ ]

Email (Owner/Operator)

FED TAX ID
[ ][ ] - [ ][ ][ ][ ][ ][ ][ ] (not required for individuals)

Project Site Information

Project/Site Name
L&M Specialty Fabrication

Street Address (NOT P.O. BOX)
East Saile Drive

Side of Street
○ North ● South ○ East ○ West

City/Town/Village (THAT ISSUES BUILDING PERMIT)
Batavia

State: NY
Zip: 14020 -
County:
DEC Region: 8

Name of Nearest Cross Street
Bank St Rd

Distance to Nearest Cross Street (Feet): 0

Project In Relation to Cross Street
○ North ○ South ○ East ● West

Tax Map Numbers
Section-Block-Parcel: 5-1-67.11

Tax Map Numbers:

1. Provide the Geographic Coordinates for the project site in NYTM Units. To do this you **must** go to the NYSDEC Stormwater Interactive Map on the DEC website at:

www.dec.ny.gov/imsmaps/stormwater/viewer.htm

Zoom into your Project Location such that you can accurately click on the centroid of your site. Once you have located your project site, go to the tool boxes on the top and choose "i"(identify). Then click on the center of your site and a new window containing the X, Y coordinates in UTM will pop up. Transcribe these coordinates into the boxes below. For problems with the interactive map use the help function.

X Coordinates (Easting): 242816

Y Coordinates (Northing): 4768816

2. What is the nature of this construction project?

● **New Construction**

○ **Redevelopment with increase in impervious area**

○ **Redevelopment with no increase in impervious area**

3. Select the predominant land use for both pre and post development conditions.
SELECT ONLY ONE CHOICE FOR EACH

Pre-Development Existing Land Use

- ○ FOREST
- ○ PASTURE/OPEN LAND
- ● CULTIVATED LAND
- ○ SINGLE FAMILY HOME
- ○ SINGLE FAMILY SUBDIVISION
- ○ TOWN HOME RESIDENTIAL
- ○ MULTIFAMILY RESIDENTIAL
- ○ INSTITUTIONAL/SCHOOL
- ○ INDUSTRIAL
- ○ COMMERCIAL
- ○ ROAD/HIGHWAY
- ○ RECREATIONAL/SPORTS FIELD
- ○ BIKE PATH/TRAIL
- ○ LINEAR UTILITY
- ○ PARKING LOT
- ○ OTHER

Post-Development Future Land Use

- ○ SINGLE FAMILY HOME
- ○ SINGLE FAMILY SUBDIVISION — Number of Lots
- ○ TOWN HOME RESIDENTIAL
- ○ MULTIFAMILY RESIDENTIAL
- ○ INSTITUTIONAL/SCHOOL
- ● INDUSTRIAL
- ○ COMMERCIAL
- ○ MUNICIPAL
- ○ ROAD/HIGHWAY
- ○ RECREATIONAL/SPORTS FIELD
- ○ BIKE PATH/TRAIL
- ○ LINEAR UTILITY (water, sewer, gas, etc.)
- ○ PARKING LOT
- ○ CLEARING/GRADING ONLY
- ○ DEMOLITION, NO REDEVELOPMENT
- ○ WELL DRILLING ACTIVITY *(Oil, Gas, etc.)
- ○ OTHER

***Note:** for gas well drilling, non-high volume hydraulic fractured wells only

4. In accordance with the larger common plan of development or sale, enter the total project site area; the total area to be disturbed; existing impervious area to be disturbed (for redevelopment activities); and the future impervious area constructed within the disturbed area. (Round to the nearest tenth of an acre.)

Total Site Area	Total Area To Be Disturbed	Existing Impervious Area To Be Disturbed	Future Impervious Area Within Disturbed Area
30.0	5.5	0.0	0.6

5. Do you plan to disturb more than 5 acres of soil at any one time? ○ **Yes** ○ **No**

6. Indicate the percentage of each Hydrologic Soil Group(HSG) at the site.

A	B	C	D
0 %	16 %	67 %	17 %

7. Is this a phased project? ○ **Yes** ● **No**

8. Enter the planned start and end dates of the disturbance activities.

Start Date __ / __ / ____ - **End Date** __ / __ / ____

9. Identify the nearest surface waterbody(ies) to which construction site runoff will discharge.

Name

9a. Type of waterbody identified in Question 9?

- ○ Wetland / State Jurisdiction On Site (Answer 9b)
- ○ Wetland / State Jurisdiction Off Site
- ○ Wetland / Federal Jurisdiction On Site (Answer 9b)
- ○ Wetland / Federal Jurisdiction Off Site
- ○ Stream / Creek On Site
- ● Stream / Creek Off Site
- ○ River On Site
- ○ River Off Site
- ○ Lake On Site
- ○ Lake Off Site
- ○ Other Type On Site
- ○ Other Type Off Site

9b. How was the wetland identified?

- ○ Regulatory Map
- ○ Delineated by Consultant
- ○ Delineated by Army Corps of Engineers
- ○ Other (identify)

10. Has the surface waterbody(ies) in question 9 been identified as a 303(d) segment in Appendix E of GP-0-15-002? ○ **Yes** ○ **No**

11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-15-002? ○ **Yes** ● **No**

12. Is the project located in one of the watershed areas associated with AA and AA-S classified waters? ○ **Yes** ● **No**
If no, skip question 13.

13. Does this construction activity disturb land with no existing impervious cover and where the Soil Slope Phase is identified as an E or F on the USDA Soil Survey? ○ **Yes** ● **No**
If Yes, what is the acreage to be disturbed?

14. Will the project disturb soils within a State regulated wetland or the protected 100 foot adjacent area? ○ **Yes** ● **No**

15. Does the site runoff enter a separate storm sewer system (including roadside drains, swales, ditches, culverts, etc)? ● Yes ○ No ○ Unknown

16. What is the name of the municipality/entity that owns the separate storm sewer system?

Town of Batavia

17. Does any runoff from the site enter a sewer classified as a Combined Sewer? ○ Yes ● No ○ Unknown

18. Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law? ● Yes ○ No

19. Is this property owned by a state authority, state agency, federal government or local government? ○ Yes ● No

20. Is this a remediation project being done under a Department approved work plan? (i.e. CERCLA, RCRA, Voluntary Cleanup Agreement, etc.) ○ Yes ● No

21. Has the required Erosion and Sediment Control component of the SWPPP been developed in conformance with the current NYS Standards and Specifications for Erosion and Sediment Control (aka Blue Book)? ● Yes ○ No

22. Does this construction activity require the development of a SWPPP that includes the post-construction stormwater management practice component (i.e. Runoff Reduction, Water Quality and Quantity Control practices/techniques)? ● Yes ○ No
If No, skip questions 23 and 27-39.

23. Has the post-construction stormwater management practice component of the SWPPP been developed in conformance with the current NYS Stormwater Management Design Manual? ● Yes ○ No

24. The Stormwater Pollution Prevention Plan (SWPPP) was prepared by:

- ● **Professional Engineer (P.E.)**
- ○ **Soil and Water Conservation District (SWCD)**
- ○ **Registered Landscape Architect (R.L.A)**
- ○ **Certified Professional in Erosion and Sediment Control (CPESC)**
- ○ **Owner/Operator**
- ○ **Other**

SWPPP Preparer
PDM Engineers

Contact Name (Last, Space, First)
McCarthy Paul

Mailing Address
115 Grandview Ter

City
Batavia

State Zip
NY 14020 -

Phone
585 - 345 - 1159

Fax
- -

Email
pdmeng@empireaccess.net

SWPPP Preparer Certification

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-15-002. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

First Name
Paul

MI
D

Last Name
McCarthy

Signature
Paul McCarthy

Date
08/31/2016

25. Has a construction sequence schedule for the planned management practices been prepared? ○ Yes ● No

26. Select **all** of the erosion and sediment control practices that will be employed on the project site:

Temporary Structural

- ● Check Dams
- ○ Construction Road Stabilization
- ○ Dust Control
- ○ Earth Dike
- ○ Level Spreader
- ○ Perimeter Dike/Swale
- ○ Pipe Slope Drain
- ○ Portable Sediment Tank
- ○ Rock Dam
- ○ Sediment Basin
- ○ Sediment Traps
- ● Silt Fence
- ● Stabilized Construction Entrance
- ○ Storm Drain Inlet Protection
- ○ Straw/Hay Bale Dike
- ○ Temporary Access Waterway Crossing
- ○ Temporary Stormdrain Diversion
- ○ Temporary Swale
- ○ Turbidity Curtain
- ○ Water bars

Biotechnical

- ○ Brush Matting
- ○ Wattling

Vegetative Measures

- ○ Brush Matting
- ○ Dune Stabilization
- ● Grassed Waterway
- ○ Mulching
- ○ Protecting Vegetation
- ○ Recreation Area Improvement
- ○ Seeding
- ○ Sodding
- ○ Straw/Hay Bale Dike
- ○ Streambank Protection
- ○ Temporary Swale
- ○ Topsoiling
- ○ Vegetating Waterways

Permanent Structural

- ○ Debris Basin
- ○ Diversion
- ○ Grade Stabilization Structure
- ○ Land Grading
- ○ Lined Waterway (Rock)
- ○ Paved Channel (Concrete)
- ○ Paved Flume
- ○ Retaining Wall
- ○ Riprap Slope Protection
- ○ Rock Outlet Protection
- ○ Streambank Protection

Other

Post-construction Stormwater Management Practice (SMP) Requirements

Important: Completion of Questions 27-39 is not required if response to Question 22 is No.

27. Identify all site planning practices that were used to prepare the final site plan/layout for the project.

- ● **Preservation of Undisturbed Areas**
- ○ **Preservation of Buffers**
- ○ **Reduction of Clearing and Grading**
- ○ **Locating Development in Less Sensitive Areas**
- ● **Roadway Reduction**
- ○ **Sidewalk Reduction**
- ○ **Driveway Reduction**
- ○ **Cul-de-sac Reduction**
- ○ **Building Footprint Reduction**
- ○ **Parking Reduction**

27a. Indicate which of the following soil restoration criteria was used to address the requirements in Section 5.1.6("Soil Restoration") of the Design Manual (2010 version).

- ● All disturbed areas will be restored in accordance with the Soil Restoration requirements in Table 5.3 of the Design Manual (see page 5-22).
- ○ Compacted areas were considered as impervious cover when calculating the **WQv Required,** and the compacted areas were assigned a post-construction Hydrologic Soil Group (HSG) designation that is one level less permeable than existing conditions for the hydrology analysis.

28. Provide the total Water Quality Volume (WQv) required for this project (based on final site plan/layout).

Total WQv Required

		0	.	0	5	8	**acre-feet**

29. Identify the RR techniques (Area Reduction), RR techniques(Volume Reduction) and Standard SMPs with RRv Capacity in Table 1 (See Page 9) that were used to reduce the Total WQv Required(#28).

Also, provide in Table 1 the total impervious area that contributes runoff to each technique/practice selected. For the Area Reduction Techniques, provide the total contributing area (includes pervious area) and, if applicable, the total impervious area that contributes runoff to the technique/practice.

Note: Redevelopment projects shall use Tables 1 and 2 to identify the SMPs used to treat and/or reduce the WQv required. If runoff reduction techniques will not be used to reduce the required WQv, skip to question 33a after identifying the SMPs.

Table 1 - Runoff Reduction (RR) Techniques and Standard Stormwater Management Practices (SMPs)

	Total Contributing Area (acres)		Total Contributing Impervious Area (acres)
RR Techniques (Area Reduction)			
○ Conservation of Natural Areas (RR-1) ...	___.___	and/or	___.___
○ Sheetflow to Riparian Buffers/Filters Strips (RR-2)	___.___	and/or	___.___
○ Tree Planting/Tree Pit (RR-3)	___.___	and/or	___.___
○ Disconnection of Rooftop Runoff (RR-4) ..	___.___	and/or	___.___
RR Techniques (Volume Reduction)			
● Vegetated Swale (RR-5)			___.___
○ Rain Garden (RR-6)			___.___
○ Stormwater Planter (RR-7)			___.___
○ Rain Barrel/Cistern (RR-8)			___.___
○ Porous Pavement (RR-9)			___.___
○ Green Roof (RR-10)			___.___
Standard SMPs with RRv Capacity			
○ Infiltration Trench (I-1)			___.___
○ Infiltration Basin (I-2)			___.___
○ Dry Well (I-3)			___.___
○ Underground Infiltration System (I-4)			___.___
○ Bioretention (F-5)			___.___
○ Dry Swale (O-1)			___.___
Standard SMPs			
○ Micropool Extended Detention (P-1)			___.___
○ Wet Pond (P-2)			___.___
○ Wet Extended Detention (P-3)			___.___
○ Multiple Pond System (P-4)			___.___
○ Pocket Pond (P-5)			___.___
○ Surface Sand Filter (F-1)			___.___
○ Underground Sand Filter (F-2)			___.___
○ Perimeter Sand Filter (F-3)			___.___
○ Organic Filter (F-4)			___.___
○ Shallow Wetland (W-1)			___.___
○ Extended Detention Wetland (W-2)			___.___
○ Pond/Wetland System (W-3)			___.___
○ Pocket Wetland (W-4)			___.___
○ Wet Swale (O-2)			___.___

Table 2 - Alternative SMPs
(DO NOT INCLUDE PRACTICES BEING USED FOR PRETREATMENT ONLY)

Alternative SMP	Total Contributing Impervious Area (acres)
○ Hydrodynamic	
○ Wet Vault	
○ Media Filter	
○ Other	

Provide the name and manufacturer of the Alternative SMPs (i.e. proprietary practice(s)) being used for WQv treatment.

Name

Manufacturer

Note: Redevelopment projects which do not use RR techniques, shall use questions 28, 29, 33 and 33a to provide SMPs used, total WQv required and total WQv provided for the project.

30. Indicate the Total RRv provided by the RR techniques (Area/Volume Reduction) and Standard SMPs with RRv capacity identified in question 29.

Total RRv provided

0.189 **acre-feet**

31. Is the Total RRv provided (#30) greater than or equal to the total WQv required (#28).

● **Yes** ○ **No**

If Yes, go to question 36.
If No, go to question 32.

32. Provide the Minimum RRv required based on HSG.
[Minimum RRv Required = (P)(0.95)(Ai)/12, Ai=(S)(Aic)]

Minimum RRv Required

. **acre-feet**

32a. Is the Total RRv provided (#30) greater than or equal to the Minimum RRv Required (#32)?

● **Yes** ○ **No**

If Yes, go to question 33.
Note: Use the space provided in question #39 to summarize the specific site limitations and justification for not reducing 100% of WQv required (#28). A detailed evaluation of the specific site limitations and justification for not reducing 100% of the WQv required (#28) must also be included in the SWPPP.
If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

33. Identify the Standard SMPs in Table 1 and, if applicable, the Alternative SMPs in Table 2 that were used to treat the remaining total WQv(=Total WQv Required in 28 - Total RRv Provided in 30).

Also, provide in Table 1 and 2 the total impervious area that contributes runoff to each practice selected.

Note: Use Tables 1 and 2 to identify the SMPs used on Redevelopment projects.

33a. Indicate the Total WQv provided (i.e. WQv treated) by the SMPs identified in question #33 and Standard SMPs with RRv Capacity identified in question 29.

WQv Provided

[ ][ ][ ].[ ][ ][ ] **acre-feet**

Note: For the standard SMPs with RRv capacity, the WQv provided by each practice = the WQv calculated using the contributing drainage area to the practice - RRv provided by the practice. (See Table 3.5 in Design Manual)

34. Provide the sum of the Total RRv provided (#30) and the WQv provided (#33a). [ ][ ][ ].[ ][ ][ ]

35. Is the sum of the RRv provided (#30) and the WQv provided (#33a) greater than or equal to the total WQv required (#28)? ○ **Yes** ○ **No**

If Yes, go to question 36.
If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

36. Provide the total Channel Protection Storage Volume (CPv) required and provided or select waiver (36a), if applicable.

CPv Required

[ ][ ][0].[1][4][5] **acre-feet**

CPv Provided

[ ][ ][0].[1][5][5] **acre-feet**

36a. The need to provide channel protection has been waived because:

○ Site discharges directly to tidal waters or a fifth order or larger stream.

○ Reduction of the total CPv is achieved on site through runoff reduction techniques or infiltration systems.

37. Provide the Overbank Flood (Qp) and Extreme Flood (Qf) control criteria or select waiver (37a), if applicable.

Total Overbank Flood Control Criteria (Qp)

Pre-Development

[ ][2][6].[2][0][ ] CFS

Post-development

[ ][1][9].[4][4][ ] CFS

Total Extreme Flood Control Criteria (Qf)

Pre-Development

[ ][4][0].[1][0][ ] CFS

Post-development

[ ][3][3].[8][3][ ] CFS

Owner/Operator Certification

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Print First Name: Lee

MI:

Print Last Name: Shuknecht

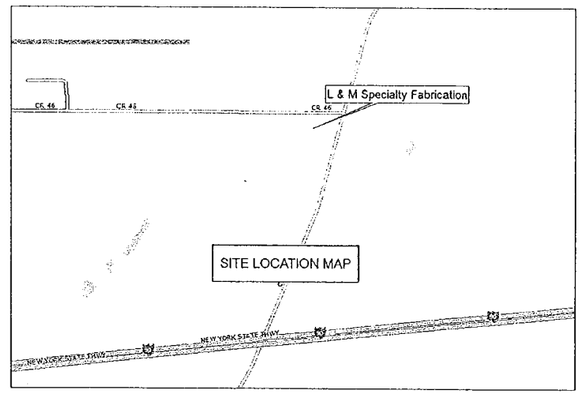
Owner/Operator Signature: Lee Shuknecht

Date: / /

L & M SPECIALTY FABRICATION

EAST SAILE DRIVE

TOWN OF BATAVIA, GENESEE COUNTY, NEW YORK



PERMIT AND UTILITY DATA

BUILDING PERMIT	TOWN OF BATAVIA 3833 WEST MAIN STREET ROAD BATAVIA, NY 14020 PH. 585 343-1729
CONTACT: TITLE:	BRUCE GEROULD CODE ENFORCEMENT OFFICER
ZONING APPROVAL	TOWN OF BATAVIA 3833 WEST MAIN STREET ROAD BATAVIA, NY 14020 PH. 585 343-1729
CONTACT: TITLE:	BRUCE GEROULD CODE ENFORCEMENT OFFICER
GAS SERVICE	NATIONAL FUEL PH. 1 800 365-3234
ELECTRICAL SERVICE	NATIONAL GRID PH. 1 800 642-4272
CABLE SERVICE	TIME WARNER COMMUNICATIONS 29 CEDAR STREET BATAVIA, NY 14020 PH. 585 344-2186
TELEPHONE SERVICE	VERIZON 716 890-6464

DRAWING INDEX

C-2816	COVER SHEET
1 of 1	TOPOGRAPHIC SURVEY
C1-2816	SITE PLAN
C2-2816	SITE PLAN
C3-2816	SITE DETAILS
C4-2816	GRADING PLAN
C5-2616	EROSION AND SEDIMENTATION CONTROL PLAN
C6-2816	EROSION AND SEDIMENTATION CONTROL DETAILS
C7-2816	SITE UTILITY PLAN
C8-2816	UTILITY DETAILS
C9-2816	WASTE TREATMENT SYSTEM

PROJECT DIRECTORY

OWNER	SAILE PROPERTIES, LLC 6456 OAK ORCHARD ROAD ELBA, NY 14058
SURVEYOR	WELCH & O'DONOGHUE, LAND SURVEYORS, PC 8713 ROUTE 237 STAFFORD, NY 14143 PH. 585 343-5334
CIVIL ENGINEER	PDM ENGINEERS 115 GRANDVIEW TERRACE BATAVIA, NY 14020 PH. 585 345-1159

APPROVAL

PLANNING BOARD CHAIRMAN	DATE

APPROVAL

HIGHWAY SUPERINDENTANT	DATE

APPROVAL

TOWN ENGINEER	DATE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON JOB

NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS IN VIOLATION OF SECTION 7209 PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Revisions:

Revision Number	Date	

Project:
L & M SPECIALTY FABRICATION
EAST SAILE DRIVE
TOWN OF BATAVIA, GENESEE COUNTY, NY

Title:
COVER SHEET

STATE OF NEW YORK
DAVID D. DUCHERT
No. 074170
Licensed Professional Engineer

PDM
ENGINEERS
115 Grandview Terrace
Batavia, NY 14020
Tel: 585 345-1159
Email: pdmeng@empireaccess.net

Date: AUGUST 2016
Scale: NONE
Designed by: PDM
Drawn by: DTD
Checked by: PDM

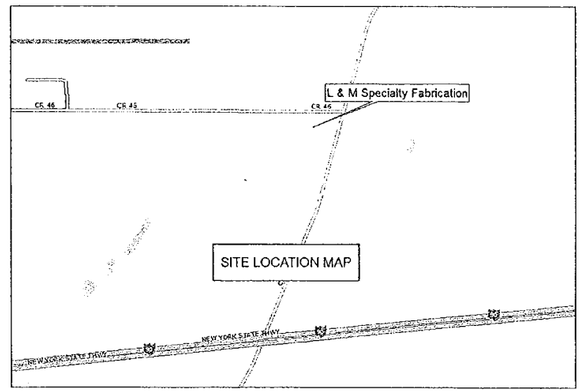
Drawing No.:
C-2816

©2016, PDM Engineers

L & M SPECIALTY FABRICATION

EAST SAILE DRIVE

TOWN OF BATAVIA, GENESEE COUNTY, NEW YORK



PERMIT AND UTILITY DATA

BUILDING PERMIT	TOWN OF BATAVIA 3833 WEST MAIN STREET ROAD BATAVIA, NY 14020 PH. 585 343-1729
CONTACT: TITLE:	BRUCE GEROULD CODE ENFORCEMENT OFFICER
ZONING APPROVAL	TOWN OF BATAVIA 3833 WEST MAIN STREET ROAD BATAVIA, NY 14020 PH. 585 343-1729
CONTACT: TITLE:	BRUCE GEROULD CODE ENFORCEMENT OFFICER
GAS SERVICE	NATIONAL FUEL PH. 1 800 365-3234
ELECTRICAL SERVICE	NATIONAL GRID PH. 1 800 642-4272
CABLE SERVICE	TIME WARNER COMMUNICATIONS 29 CEDAR STREET BATAVIA, NY 14020 PH. 585 344-2186
TELEPHONE SERVICE	VERIZON 716 890-6464

DRAWING INDEX

C-2816	COVER SHEET
1 of 1	TOPOGRAPHIC SURVEY
C1-2816	SITE PLAN
C2-2816	SITE PLAN
C3-2816	SITE DETAILS
C4-2816	GRADING PLAN
C5-2616	EROSION AND SEDIMENTATION CONTROL PLAN
C6-2816	EROSION AND SEDIMENTATION CONTROL DETAILS
C7-2816	SITE UTILITY PLAN
C8-2816	UTILITY DETAILS
C9-2816	WASTE TREATMENT SYSTEM

PROJECT DIRECTORY

OWNER	SAILE PROPERTIES, LLC 6456 OAK ORCHARD ROAD ELBA, NY 14058
SURVEYOR	WELCH & O'DONOGHUE, LAND SURVEYORS, PC 8713 ROUTE 237 STAFFORD, NY 14143 PH. 585 343-5334
CIVIL ENGINEER	PDM ENGINEERS 115 GRANDVIEW TERRACE BATAVIA, NY 14020 PH. 585 345-1159

APPROVAL

PLANNING BOARD CHAIRMAN	DATE

APPROVAL

HIGHWAY SUPERINDENTANT	DATE

APPROVAL

TOWN ENGINEER	DATE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON JOB

NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS IN VIOLATION OF SECTION 7209 PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Revisions:

Revision Number	Date	

Project: L & M SPECIALTY FABRICATION
EAST SAILE DRIVE
TOWN OF BATAVIA, GENESEE COUNTY, NY

Title: COVER SHEET

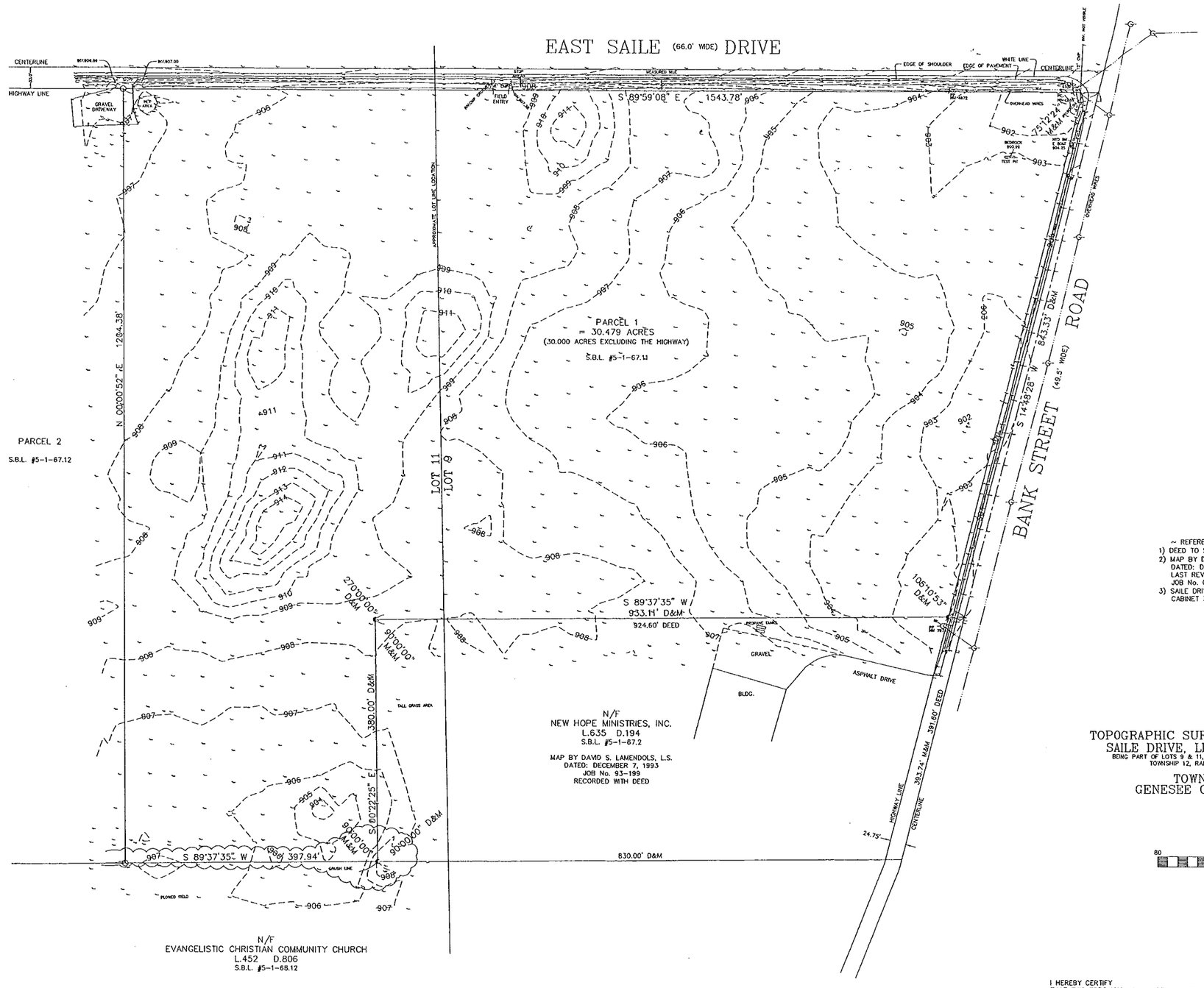
STATE OF NEW YORK
PAUL D. MCCARTHY
LICENSED PROFESSIONAL ENGINEER
NO. 071170

PDM
ENGINEERS
115 Grandview Terrace
Batavia, NY 14020
Tel: 585 345-1159
Email: pdmeng@amplroaccess.net

Date: AUGUST 2016
Scale: NONE
Designed by: PDM
Drawn by: DTD
Checked by: PDM

Drawing No.:
C-2816

©2016, PDM Engineers



O = IRON PIN SET
⊗ = CONCRETE MONUMENT FOUND
● = IRON PIN/PIPE FOUND
= UTILITY POLE
= FIRE HYDRANT
= WATER VALVE
= SIGN

D&M = DEED & MEASURED
M&M = MAP & MEASURED

~ REFERENCES ~

1) DEED TO SAILE DRIVE, LLC L.847 D.507
2) MAP BY DAVID S. LAMENDOLA, L.S.
   DATED: DECEMBER 5, 2005
   LAST REVISED: FEBRUARY 23, 2006
   JOB No. 05-342
3) SAILE DRIVE, LLC – LAND SEPARATION
   CABINET 3, SLIDE 59, MAP No. 2374

TOPOGRAPHIC SURVEY – PARCEL 1 OF THE SAILE DRIVE, LLC – LAND SEPARATION

BEING PART OF LOTS 9 & 11, SECTION 10 AND PART OF LOT 1, SECTION 14, TOWNSHIP 12, RANGE 1 OF THE HOLLAND PURCHASE
SITUATE IN THE

TOWN OF BATAVIA
GENESEE COUNTY, NEW YORK

JULY 12, 2016

80 0 80 160
Scale: 1" = 80'

I HEREBY CERTIFY
THAT THIS TOPO MAP WAS MADE JULY 12, 2016
FROM NOTES OF A SURVEY COMPLETED JULY 2, 2016.

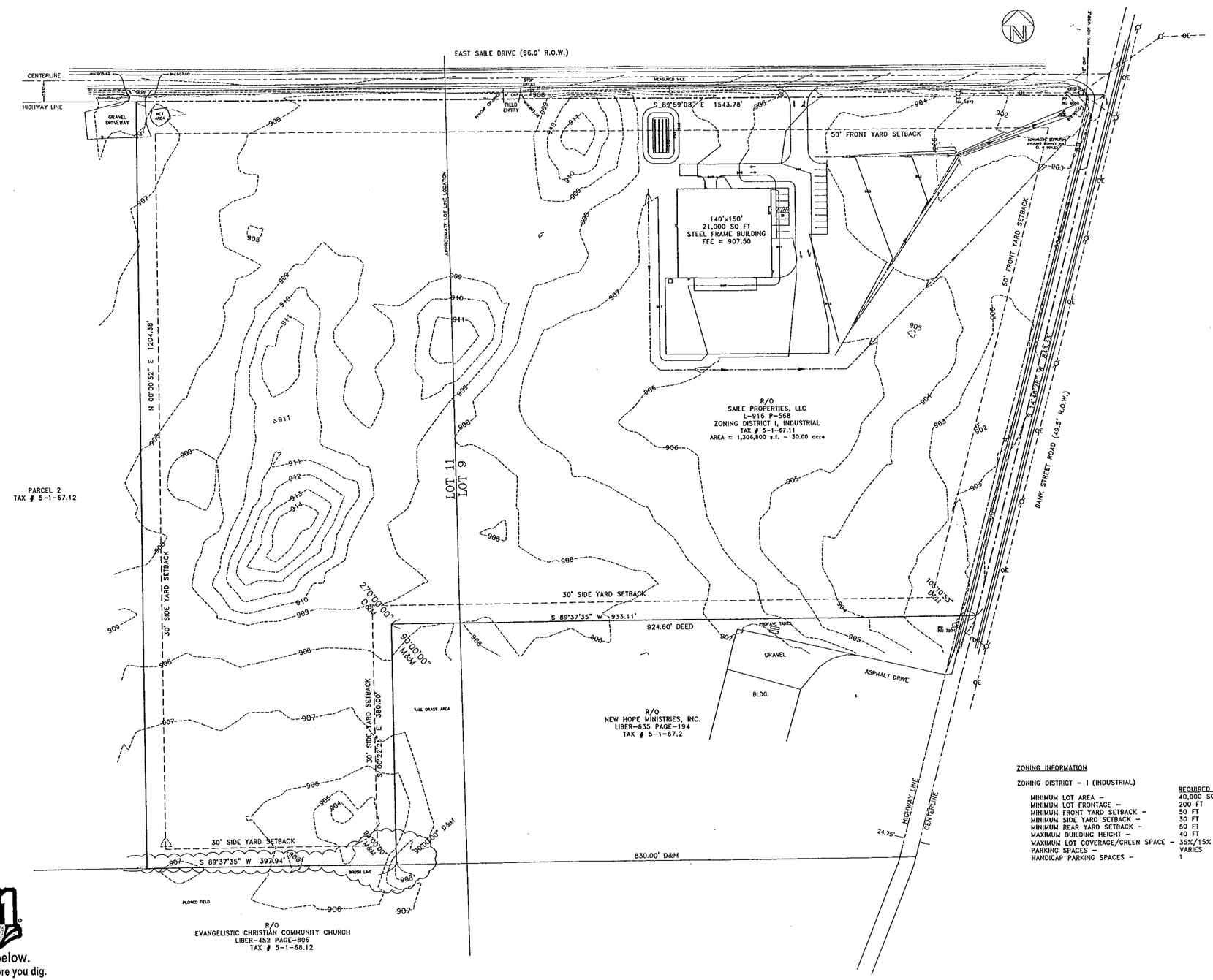
KEVIN M. O'DONOGHUE, L.S. No. 49514

WELCH & O'DONOGHUE
LAND SURVEYORS, P.C.
P.O. BOX 869
8713 ROUTE 237
STAFFORD, NEW YORK 14143

PH. (585) 343-5334
FAX 343-5810

wosurvey@rochester.rr.com

JOB No. G15-4192S-T1



KEY:

- 901 — EXISTING ELEVATION CONTOUR
- 901 — PROPOSED ELEVATION CONTOUR
- PROPERTY LINE
- UTILITY POLE
- OE — OVERHEAD ELECTRIC
- SIGN
- FIRE HYDRANT
- RIP RAP OUTLET

ZONING INFORMATION

ZONING DISTRICT – I (INDUSTRIAL)

	REQUIRED	PROPOSED
MINIMUM LOT AREA –	40,000 SQ FT	1,306,800 SQ FT
MINIMUM LOT FRONTAGE –	200 FT	1,543.76 FT
MINIMUM FRONT YARD SETBACK –	50 FT	140 FT
MINIMUM SIDE YARD SETBACK –	30 FT	846 FT
MINIMUM REAR YARD SETBACK –	50 FT	538 FT
MAXIMUM BUILDING HEIGHT –	40 FT	28 FT
MAXIMUM LOT COVERAGE/GREEN SPACE –	35%/15%	1.6%/6.2%
PARKING SPACES –	VARIES	17 (10'x20')
HANDICAP PARKING SPACES –	1	1

811 Know what's below. Call before you dig.

811 Know what's below. Call before you dig.

NOTE: PERIMETER PROPERTY SURVEY AND TOPOGRAPHIC SURVEY PREPARED BY WELCH & O'DONOGHUE LAND SURVEYORS, P.C.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON JOB

NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS IN VIOLATION OF SECTION 7209 PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Project: L & M SPECIALTY FABRICATION
EAST SAILE DRIVE
TOWN OF BATAVIA, GENESEE COUNTY, NY

Title: SITE PLAN

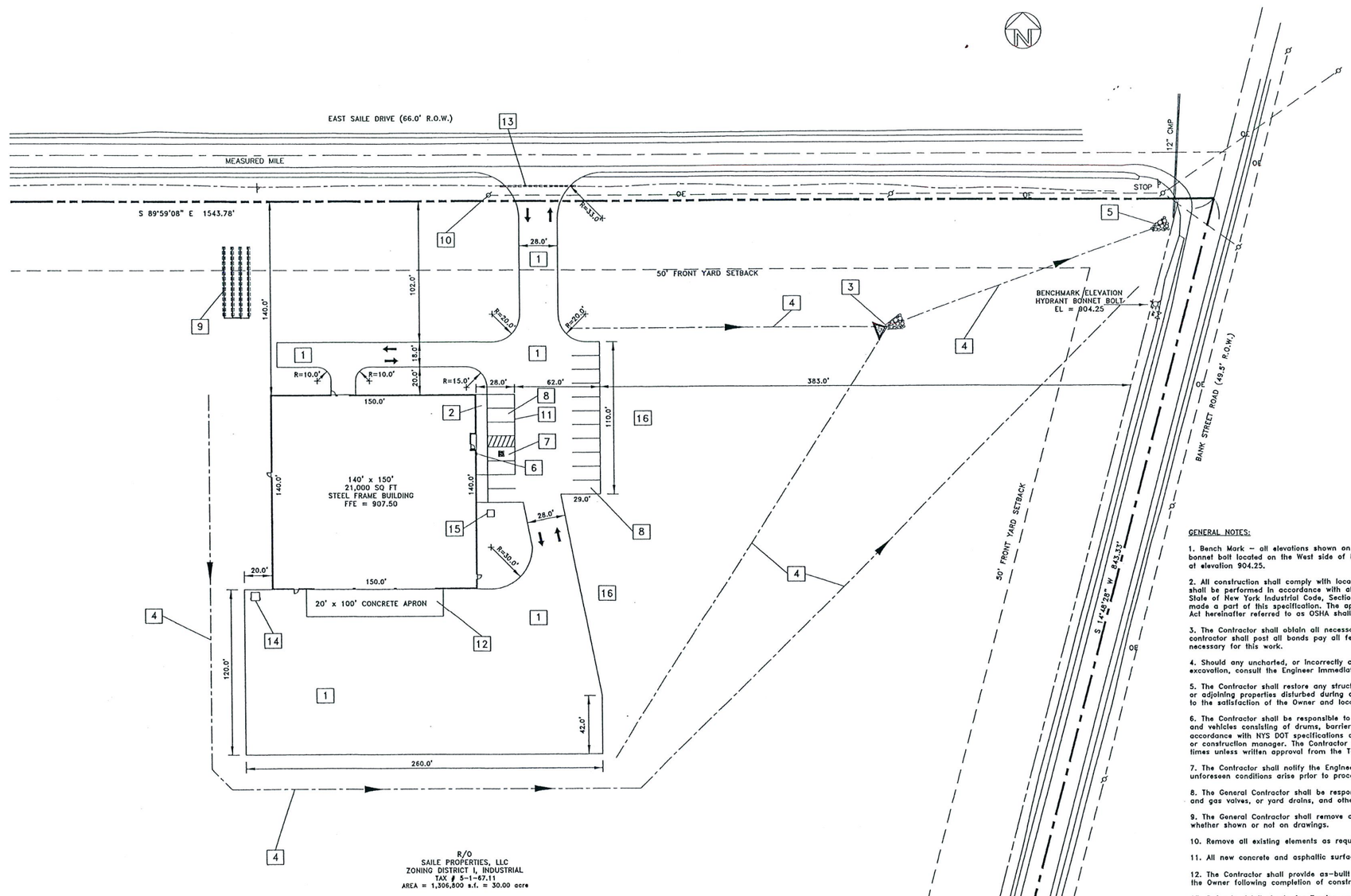
STATE OF NEW YORK — PAUL D. McCARTHY — No. 074128 — Licensed Professional Engineer

PDM ENGINEERS
115 Grandview Terrace
Batavia, NY 14020
Tel: 585 345-1159
Email: pdmeng@empiresaccess.net

Date: AUGUST 2016
Scale: 1" = 80'
Designed by: PDM
Drawn by: DTD
Checked by: PDM

Drawing No.: C1-2816

©2016, PDM Engineers



KEY:

- PROPERTY LINE
- UTILITY POLE
- OVERHEAD ELECTRIC
- FIRE HYDRANT
- SIGN
- TRAFFIC FLOW DIRECTION

1. GRAVEL DRIVEWAY/PARKING, SEE DETAIL ON C3-2816
2. 8' WIDE PAVED SIDEWALK/PARKING, SEE DETAIL ON C3-2816
3. STONE CHECK DAM WITH RIP RAP OUTLET
4. VEGETATED DRAINAGE SWALE, SEE DETAIL ON C5-2816
5. RIP RAP, SEE DETAIL ON C5-2816
6. BARRIER FREE SIGN, SEE DETAIL ON C3-2816
7. BARRIER FREE SYMBOL, SEE DETAIL ON C3-2816
8. 10' X 20' PARKING SPACE
9. MOUND WASTE TREATMENT BED, SEE DETAIL ON C9-2816
10. NEW UTILITY POLE
11. 28' X 58' PARKING/SIDEWALK PAVED PAD
12. 20' x 100' CONCRETE PAD, SEE DETAIL ON C3-2816
13. 12"ø DRIVEWAY CULVERT, SEE DETAIL ON C3-2816
14. TRASH DUMPSTER
15. TRANSFORMER
16. SNOW STORAGE AREA

GENERAL NOTES:

1. Bench Mark – all elevations shown on all drawings for this project are referenced to the fire hydrant bonnet bolt located on the West side of Bank St Rd approximately 113' South of the center of E Saile Dr at elevation 904.25.

2. All construction shall comply with local municipal and county codes and standards. All construction shall be performed in accordance with all applicable OSHA, Federal, State, and Local regulations. The State of New York Industrial Code, Section 23-4 relating to excavation, shoring, and bracing shall be made a part of this specification. The applicable portions of the Federal Occupation, Safety and Health Act hereinafter referred to as OSHA shall be strictly complied with.

3. The Contractor shall obtain all necessary construction permits required to perform the work. The contractor shall post all bonds pay all fees, provide proof of insurance and provide traffic control as necessary for this work.

4. Should any uncharted, or incorrectly charted, existing piping or other utility be uncovered during excavation, consult the Engineer immediately before proceeding further with the work in this area.

5. The Contractor shall restore any structures, pipe, utility, pavement, landscape area, etc. within the Site or adjoining properties disturbed during demolition or construction to their original condition or better, and to the satisfaction of the Owner and local municipality.

6. The Contractor shall be responsible to install and maintain traffic devices for protection of pedestrians and vehicles consisting of drums, barriers, signs, lights, fences, and uniformed traffic controllers in accordance with NYS DOT specifications and/or required or directed by the Engineer, the Town of Batavia, or construction manager. The Contractor shall maintain all traffic lanes and pedestrian walkways at all times unless written approval from the Town of Batavia or other governing authority is received.

7. The Contractor shall notify the Engineer should any discrepancy regarding the proposed work or unforeseen conditions arise prior to proceeding further with the affected work.

8. The General Contractor shall be responsible to raise (or lower) and modify existing manholes, water and gas valves, or yard drains, and other utility elements to meet line of new paving or grading.

9. The General Contractor shall remove all brush and trees necessary to perform the contract work whether shown or not on drawings.

10. Remove all existing elements as required to accommodate new work.

11. All new concrete and asphaltic surfaces must meet existing layouts and elevations.

12. The Contractor shall provide as-built records of all construction (including underground utilities) to the Owner following completion of construction activities.

13. Refer to detail sheets for Erosion and Sedimentation Control, Utility, and Paving details as applicable.

14. The Contractor is responsible for the removal and disposal of all rubbish, trash, debris, and organic material in a lawful manner.

15. The Contractor shall be responsible for verifying all dimensions for buildings, manholes, concrete slabs, driveways, and utility service point connections and notifying the Owner and Engineer of any conflicts or discrepancies prior to construction.

16. Topsoil stripped from the site may be placed as directed by owner. Do not stock pile topsoil or earth closer than 20'-0" from existing trees to remain. Excess topsoil to be removed from site.

811 Know what's below. Call before you dig.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON JOB

NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS IN VIOLATION OF SECTION 7209 PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Project:
L & M SPECIALTY FABRICATION
EAST SAILE DRIVE
TOWN OF BATAVIA, GENESEE COUNTY, NY

Title:
SITE PLAN

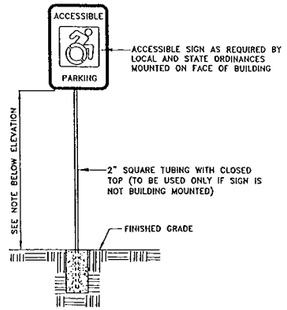
STATE OF NEW YORK
PAUL D. McCARTHY
No. 074178
Licensed Professional Engineer

PDM ENGINEERS
115 Grandview Terrace
Batavia, NY 14020
Tel: 585 345-1159
Email: pdmeng@empireaccess.net

Date: AUGUST 2016
Scale: 1" = 40'
Designed by: PDM
Drawn by: DTD
Checked by: PDM

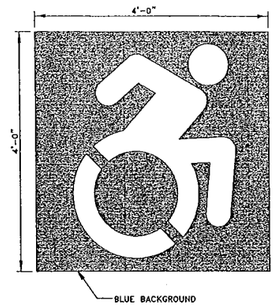
Drawing No.:
C2-2816

©2016, PDM Engineers



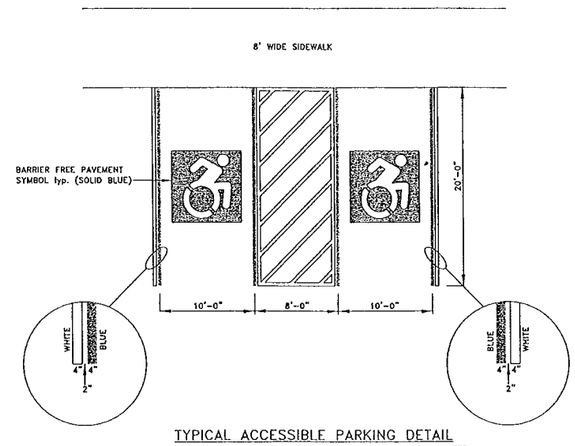
NOTE:
DIMENSION HEIGHT MOUNTED ON FACE OF BUILDING 60"-72" ABOVE SIDEWALK. MOUNTED ON POLE OFF BUILDING 80" MINIMUM (CLEAR HEAD ROOM).

TYPICAL ACCESSIBLE PARKING SIGN
NTS

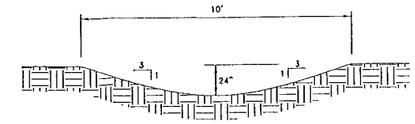


NOTE:
ACCESSIBLE PARKING SYMBOL SHALL COMPLY WITH NEW YORK STATE REQUIREMENTS

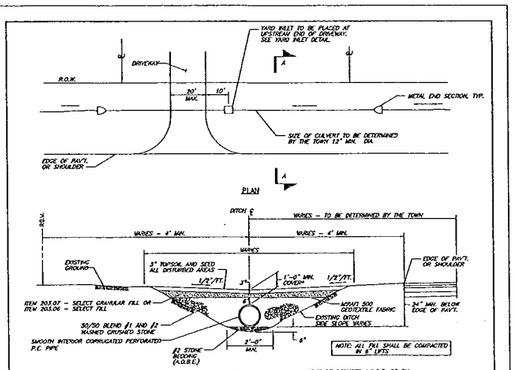
INT'L BARRIER FREE SYMBOL
NTS



TYPICAL ACCESSIBLE PARKING DETAIL
NTS



DETAIL - VEGETATIVDE DRAIN SWALE
NTS



ROADSIDE DITCH ENCLOSURE
N.T.S.

NOTES

1. PRIOR TO INSTALLING THE NEW CULVERT, THE OWNERS OR THEIR AGENTS ARE TO CLEAN OUT AND GRADE THE EXISTING DRAINAGE DITCH ALONG THEIR PROPERTY LINES ON THIS LOT.

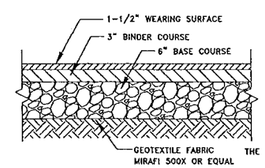
2. THE OWNERS SHALL FURNISH AND INSTALL 12 INCH MINIMUM PERFORATED SMOOTH INTERIOR PHOTOSTABLE POLYETHYLENE PIPE. MINIMUM LENGTH TO EXTEND THE FULL LENGTH OF THE PROPERTY LINE AT THE DITCH LINE. THE NEW PROPOSED DITCH CULVERT SHALL BE PLACED AT A LINE, GRADE AND OFFSET DETERMINED BY THE EXISTING DITCH LINE, GRADE AND OFFSET OF THE ADJACENT PROPERTIES ON EITHER SIDE OF THE NEW PROPOSED CULVERT TO FLOW PROPERLY IN A MANNER SATISFACTORY TO THE HIGHWAY SUPERINTENDENT OF HIGHWAYS OR HIS/HER DESIGNEE. THE MAXIMUM SPACING BETWEEN FIELD INLETS SHALL BE 200 FEET. THE OWNERS OR THEIR AGENTS SHALL INSTALL GALVANIZED STEEL END SECTIONS ON THE NEW PROPOSED PIPE.

3. IF THE DRIVEWAY IS AT HIGHER ELEVATIONS AND/OR DOWNSTREAM OF THE PROPOSED ROADSIDE DITCH ENCLOSURE, A YARD INLET SHALL BE INSTALLED OVER THE CULVERT AND WITHIN 10 FEET OF THE UPSTREAM END OF THE DRIVEWAY TO RECEIVE ROADWAY STORM WATER RUNOFF AS DIRECTED BY THE TOWN HIGHWAY SUPERINTENDENT.

4. THE APPLICANT SHALL NOTIFY THE TOWN OF BATAVIA HIGHWAY DEPARTMENT, 343-1723, AT LEAST 48 HOURS PRIOR TO PERFORMING THE WORK TO ALLOW FOR FIELD INSPECTION.

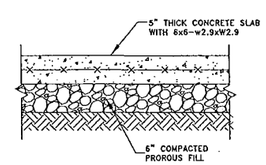
ISSUE DATE: AUGUST 2012

REVISIONS		TOWN OF BATAVIA
DATE	COMMENTS	HIGHWAY & STORM SEWER DETAILS
		ROADSIDE DITCH ENCLOSURE
		DRAWING HS-05



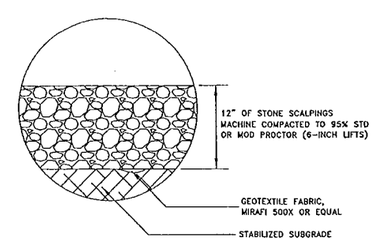
NOTE: PROVIDE THIS PAVING SECTION WHERE INDICATED ON PLANS (PARKING AREA AND SIDEWALK SURFACES).

ASPHALT PAVING
NTS



PROVIDE THIS CONCRETE SLAB WHERE INDICATED ON THE PLANS

CONCRETE PAVING
NTS



NOTE:
1. GRAVEL PARKING LOT SHALL BE REDRESSED AS NEEDED.
2. GRAVEL SHALL BE SURFACE TREATED TO CONTROL VEGETATION AND DUST AS NEEDED

GRAVEL LOT SECTION
NTS

CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON JOB

NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS IN VIOLATION OF SECTION 7209 PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Revisions:

Revision Number	Date	

Project: L & M SPECIALTY FABRICATION
EAST SAILE DRIVE
TOWN OF BATAVIA, GENESEE COUNTY, NY

Title: SITE DETAILS

STATE OF NEW YORK
PAUL D. McCARTHY
No. 071178
Licensed Professional Engineer

PDM
ENGINEERS
115 Grandview Terrace
Batavia, NY 14020
Tel: 585 345-1159
Email: pdmeng@empireaccess.net

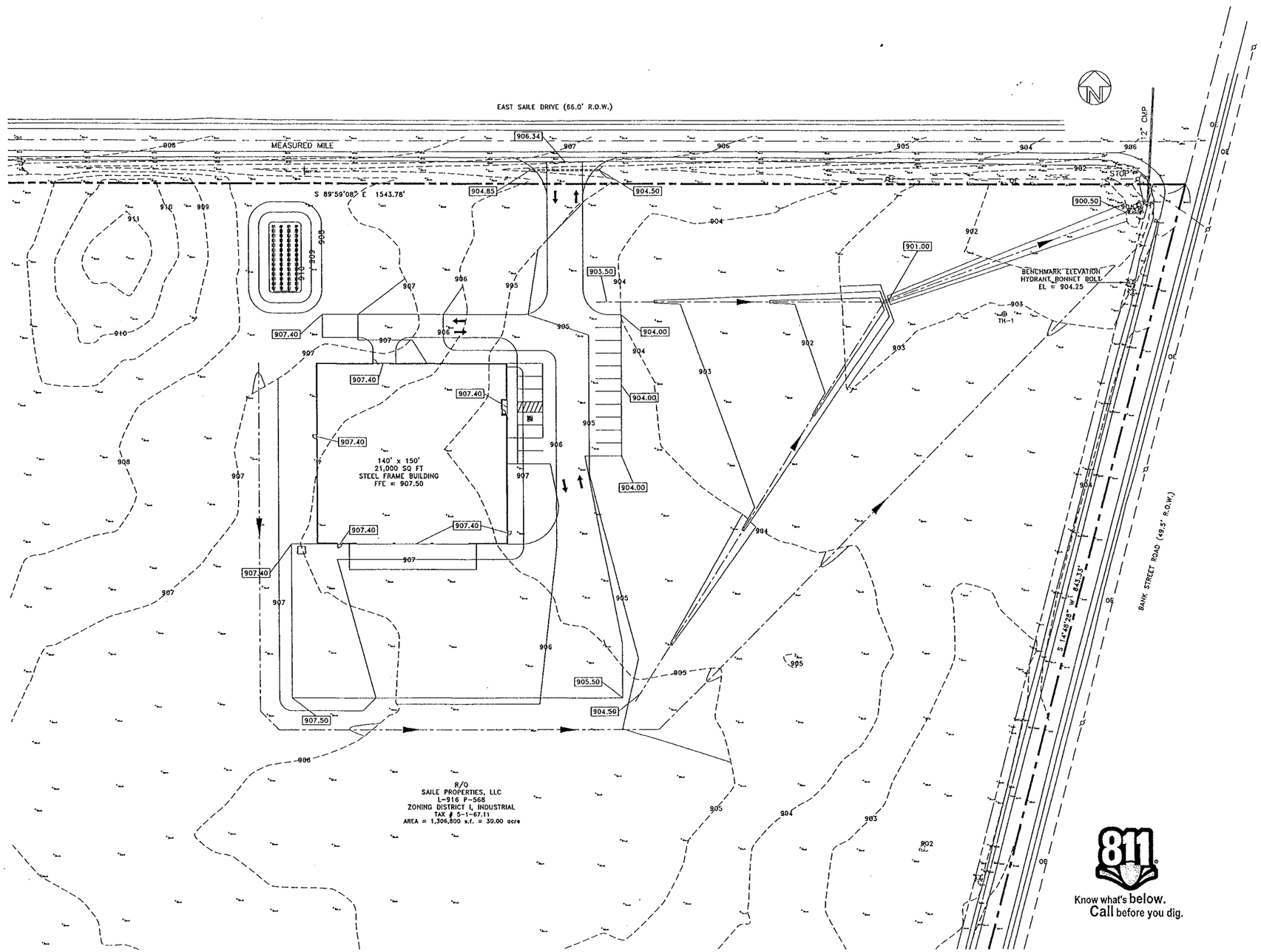
Date: AUGUST 2016
Scale: AS SHOWN
Designed by: PDM
Drawn by: DTD
Checked by: PDM

Drawing No.:
C3-2816

©2016, PDM Engineers

KEY:

- 901 — EXISTING ELEVATION CONTOUR
- 901 — PROPOSED ELEVATION CONTOUR
- SPOT ELEVATION
- PROPERTY LINE
- UTILITY POLE
- OE — OVERHEAD ELECTRIC
- FIRE HYDRANT
- SIGN



Know what's below. Call before you dig.

NOTE: PERIMETER PROPERTY SURVEY AND TOPOGRAPHIC SURVEY PREPARED BY WELCH & O'DONOGHUE LAND SURVEYORS, P.C.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON JOB

NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS IN VIOLATION OF SECTION 7209 PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Project:
L & M SPECIALTY FABRICATION
EAST SAILE DRIVE
TOWN OF BATAVIA, GENESEE COUNTY, NY

Title:
GRADING PLAN

STATE OF NEW YORK
PHIL D. McCARTHY
No. 074178
Licensed Professional Engineer

PDM
ENGINEERS
115 Grandview Terrace
Batavia, NY 14020
Tel: 585 345-1159
Email: pdmeng@empireaccess.net

Date: AUGUST 2016
Scale: 1" = 40'
Designed by: PDM
Drawn by: DTD
Checked by: PDM

Drawing No.:
C4-2816

©2016, PDM Engineers

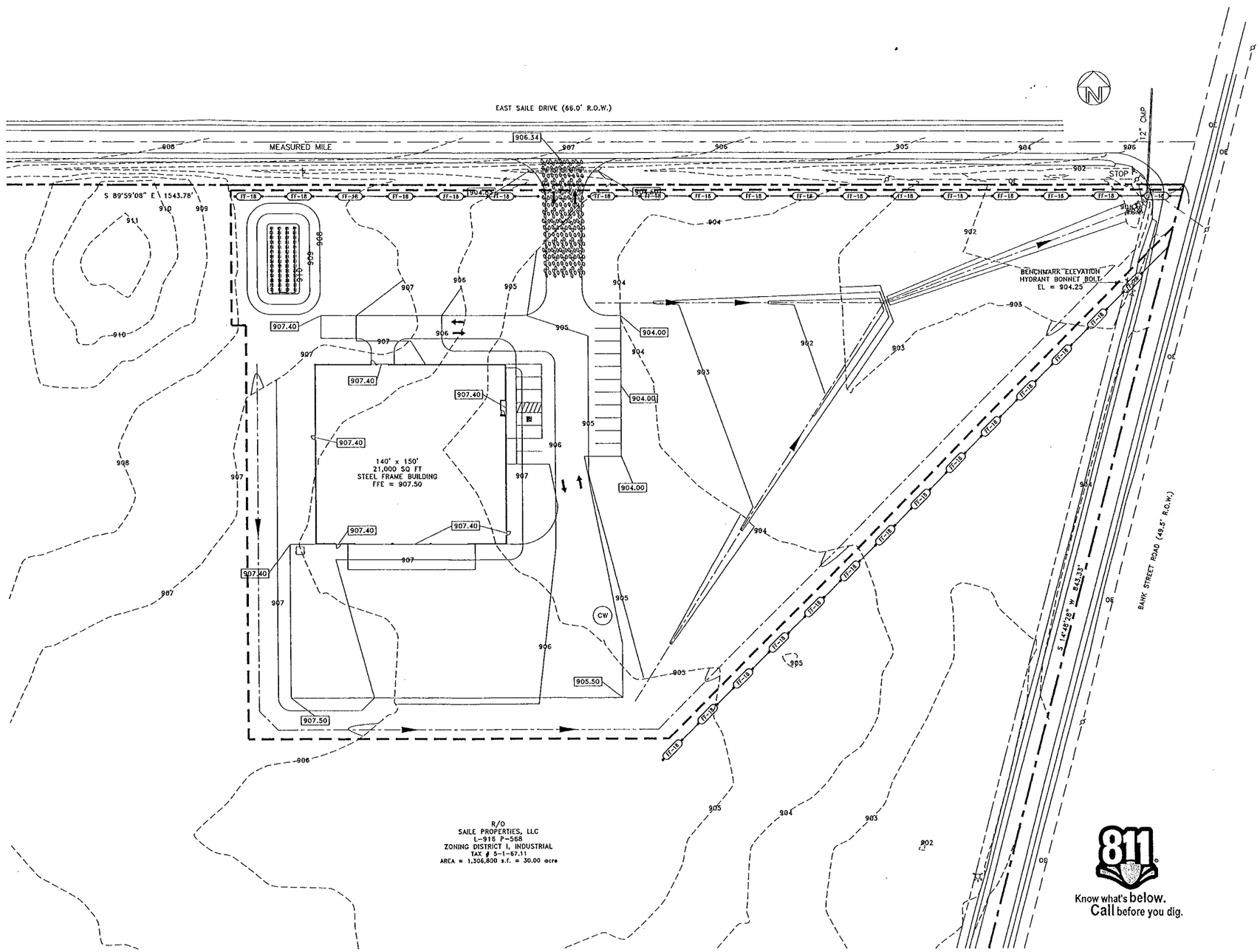
NOTE: THIS PLAN IS TO BE USED FOR EROSION AND SEDIMENTATION CONTROL PURPOSES ONLY, NOT FOR CONSTRUCTION.

TOTAL PROPERTY AREA: 1,306,800 Sq. Ft. = 30.00 ACRES
LIMITS OF DISTURBANCE: 239,580 Sq. Ft. = 5.5 ACRES

EROSION & SEDIMENT CONTROL KEY:

- LIMIT OF DISTURBED AREA
- FF-18 — 18" FILTER FABRIC SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- CW — CONCRETE WASHOUT

SEE C6-2816 FOR EROSION AND SEDIMENTATION CONTROL DETAILS



Know what's below. Call before you dig.

NOTE: PERIMETER PROPERTY SURVEY AND TOPOGRAPHIC SURVEY PREPARED BY WELCH & O'DONOGHUE LAND SURVEYORS, P.C.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON JOB

NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS IN VIOLATION OF SECTION 7209 PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Project:
L & M SPECIALTY FABRICATION
EAST SAILE DRIVE
TOWN OF BATAVIA, GENESEE COUNTY, NY

Title:
EROSION AND SEDIMENTATION CONTROL PLAN

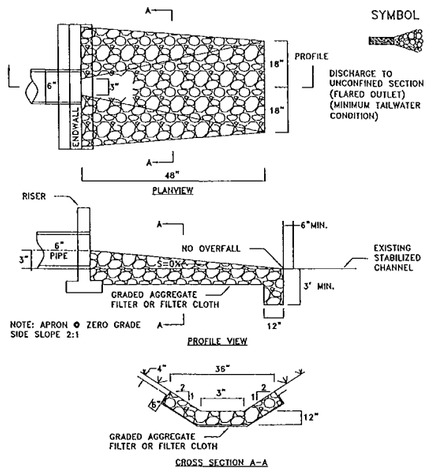
STATE OF NEW YORK
PAUL D. MCCARTHY
NO. 074178
Licensed Professional Engineer

PDM ENGINEERS
115 Grandview Terrace
Batavia, NY 14020
Tel: 585 345-1159
Email: pdmeng@empireaccess.net

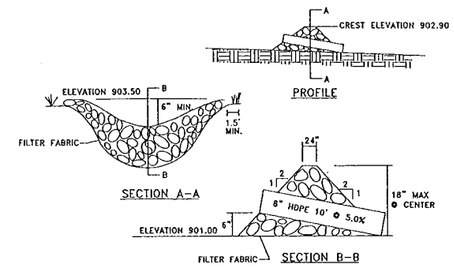
Date: AUGUST 2016
Scale: 1" = 40'
Designed by: PDM
Drawn by: DTD
Checked by: PDM

Drawing No.:
C5-2816

©2016, PDM Engineers



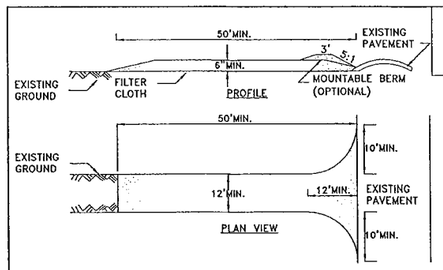
DETAIL – RIP-RAP APRON



CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
3. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
4. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.

STONE CHECK DAM DETAIL NTS

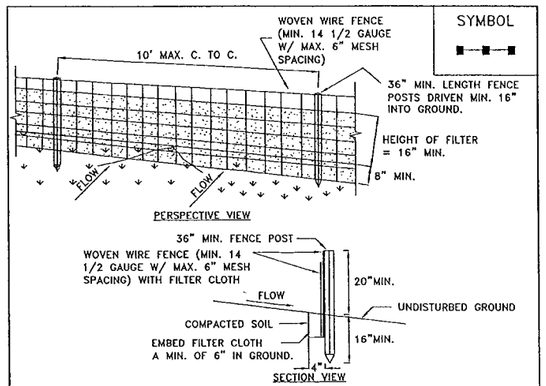


CONSTRUCTION SPECIFICATIONS

1. STONE SIZE – USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

STABILIZED CONSTRUCTION ENTRANCE

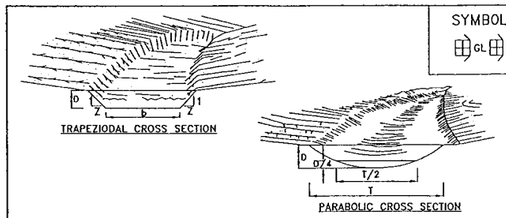


CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

SILT FENCE



CONSTRUCTION SPECIFICATIONS

1. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE WATERWAY.
2. THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN, AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
3. FILLS SHALL BE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETE WATERWAY.
4. ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE WATERWAY.
5. STABILIZATION SHALL BE DONE ACCORDING TO THE APPROPRIATE STANDARD AND SPECIFICATIONS FOR VEGETATIVE PRACTICES.
   A. FOR DESIGN VELOCITIES OF LESS THAN 3.5 FT. PER. SEC., SEEDING AND MULCHING MAY BE USED FOR THE ESTABLISHMENT OF THE VEGETATION. IT IS RECOMMENDED THAT, WHEN CONDITIONS PERMIT, TEMPORARY WATERWAYS OR OTHER MEANS SHOULD BE USED TO PREVENT WATER FROM ENTERING THE WATERWAY DURING THE ESTABLISHMENT OF THE VEGETATION.
   B. FOR DESIGN VELOCITIES OF MORE THAN 3.5 FT. PER. SEC., THE WATERWAY SHALL BE STABILIZED WITH SOD, WITH SEEDING PROTECTED BY JUTE OR EXCELSIOR MATTING OR WITH SEEDING AND MULCHING INCLUDING TEMPORARY DIVERSION OF THE WATER UNTIL THE VEGETATION IS ESTABLISHED.
   C. STRUCTURAL – VEGETATIVE PROTECTION
   SUBSURFACE DRAIN FOR BASE FLOW SHALL BE CONSTRUCTED AS SHOWN ON THE STANDARD DRAWING AND AS SPECIFIED IN THE STANDARD AND SPECIFICATIONS FOR SUBSURFACE DRAIN.

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

GRASSED WATERWAY

CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON JOB

NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS IN VIOLATION OF SECTION 7209 PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Revisions:

Revision Number	Date	

Project: L & M SPECIALTY FABRICATION
EAST SAILE DRIVE
TOWN OF BATAVIA, GENESEE COUNTY, NY

Title: EROSION & SEDIMENTATION DETAILS

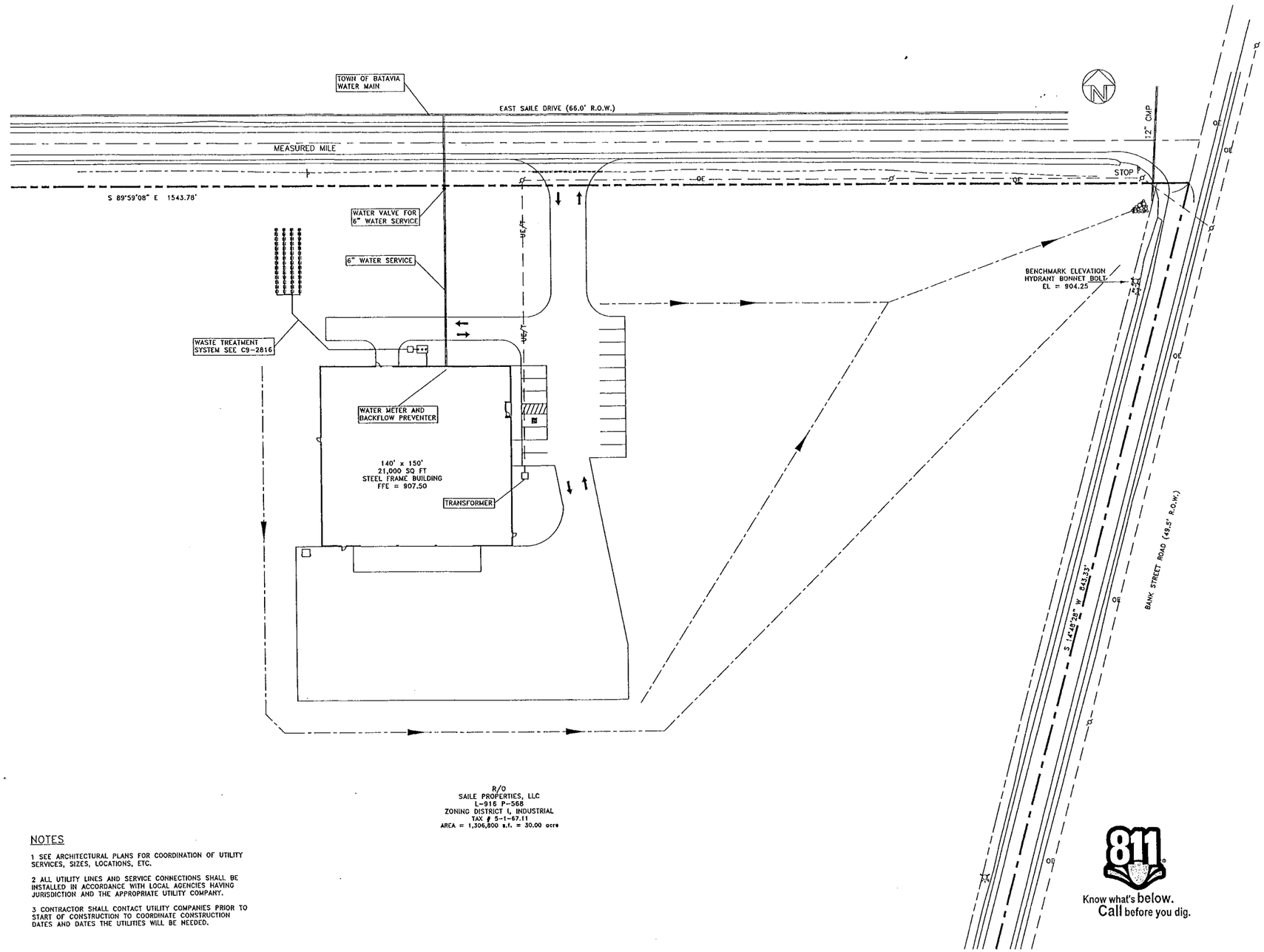
STATE OF NEW YORK · PAUL D. McCARTHY · No. 074176 · Licensed Professional Engineer

PDM ENGINEERS
115 Grandview Terrace
Batavia, NY 14020
Tel: 585 345-1159
Email: pdmeng@empireaccess.net

Date: AUGUST 2016
Scale: AS SHOWN
Designed by: PDM
Drawn by: DTD
Checked by: PDM

Drawing No.: C6-2816

©2016, PDM Engineers



NOTES:

1. All construction and/or improvements shall be in accordance with the most recent standards and specifications of the Town of Batavia, the NYS DOH and NYS DEC and any other agencies having jurisdiction.

2. The contractor shall locate, mark an preserve any right of way monuments or survey control in the area of construction.

3. The contractor shall determine exact locations of utilities before commencing construction. Contact UFPO at 811 at least 72-hours prior to construction.

4. The contractor is responsible for compliance with OSHA requirements in all aspects of construction.

5. Water main-sewer main minimum horizontal separation is 10-feet. See water main/sewer crossing detail.

6. The contractor shall make arrangements with the Town of Batavia if water is used for testing. Water may not be taken from hydrants without prior arrangement.

7. Any excavation not backfilled by the end of the work day shall be fenced, barricaded and lighted for safety and protection of the public.

8. The contractor shall be responsible for the removal of existing sanitary mains, structures and appurtenances, if any, needed to complete the work.

Water System Notes

Water mains and appurtenances to be constructed in accordance with the regulations and specifications of the Town of Batavia:

Material:

– Water service shall be 6-inch HDPE, PVC or PE #3408 from the curb box to the meter.

– Water meter shall be located on the interior of exterior walls immediately upon service entrance to the building. On metered services requiring a 2-inch or larger meter a bypass around the meter is required.

– All gate valves shall have stainless steel body and bonnet bolts.

Installation:

– The 6" water service line shall have a minimum of five feet of cover from finished grade in lawn areas and a minimum of six feet of cover from finished grade in paved areas.

– Minimum vertical separation between water mains and sewer mains shall be 18" measured from the outside of pipes at the point of crossing. Minimum horizontal separation between water mains and sewer mains shall be ten feet measured from the outside of the pipes. One full length of water main shall be centered under or over the sewer as that both joints will be as far from the sewer as possible. Where a water main crosses under a sewer, adequate structural support (compacted selected fill) shall be provided for the sewers to prevent excessive deflection of joints and settling on and breaking the water main.

NOTES

1 SEE ARCHITECTURAL PLANS FOR COORDINATION OF UTILITY SERVICES, SIZES, LOCATIONS, ETC.

2 ALL UTILITY LINES AND SERVICE CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL AGENCIES HAVING JURISDICTION AND THE APPROPRIATE UTILITY COMPANY.

3 CONTRACTOR SHALL CONTACT UTILITY COMPANIES PRIOR TO START OF CONSTRUCTION TO COORDINATE CONSTRUCTION DATES AND DATES THE UTILITIES WILL BE NEEDED.

NOTE: PERIMETER PROPERTY SURVEY AND TOPOGRAPHIC SURVEY PREPARED BY WELCH & O'DONOGHUE LAND SURVEYORS, P.C.

Know what's below. Call before you dig.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON JOB

NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS IN VIOLATION OF SECTION 7209 PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Project: L & M SPECIALTY FABRICATION
EAST SAILE DRIVE
TOWN OF BATAVIA, GENESEE COUNTY, NY

Title: UTILITY PLAN

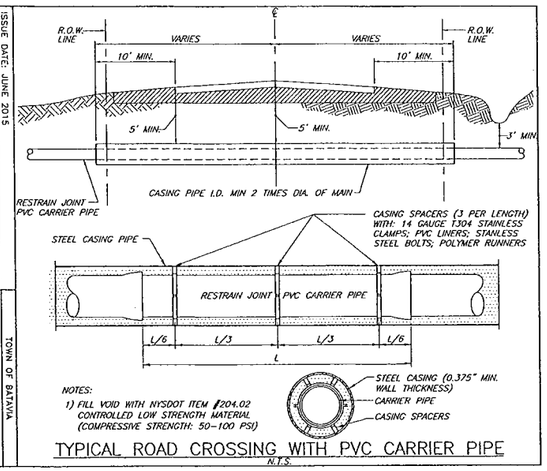
STATE OF NEW YORK · PAUL D. McCARTHY · NO. 074175 · Licensed Professional Engineer

PDM ENGINEERS
115 Grandview Terrace
Batavia, NY 14020
Tel: 585 345-1159
Email: pdmeng@empiresaccess.net

Date: AUGUST 2016
Scale: 1" = 40'
Designed by: PDM
Drawn by: DTD
Checked by: PDM

Drawing No.: C7-2816

©2016, PDM Engineers



NOTES:
1) FILL VOID WITH NYSDOT ITEM #204.02 CONTROLLED LOW STRENGTH MATERIAL (COMPRESSIVE STRENGTH: 50–100 PSI)

TYPICAL ROAD CROSSING WITH PVC CARRIER PIPE
N.T.S.

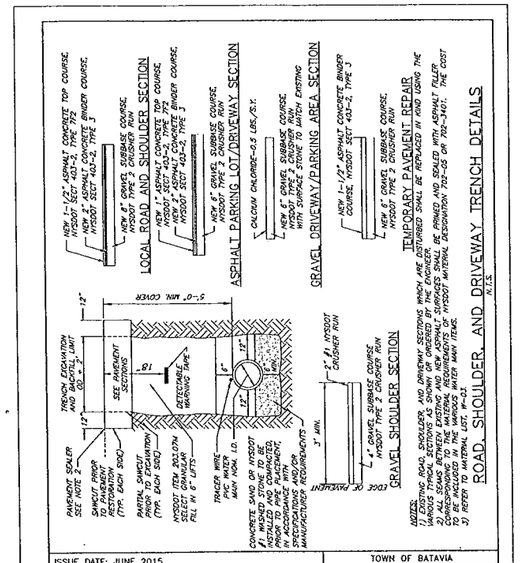
REVISIONS		
DATE	COMMENTS	

ISSUE DATE: JUNE 2015

TYPICAL ROAD CROSSING WITH HDPE CARRIER PIPE

DRAWING W-14A

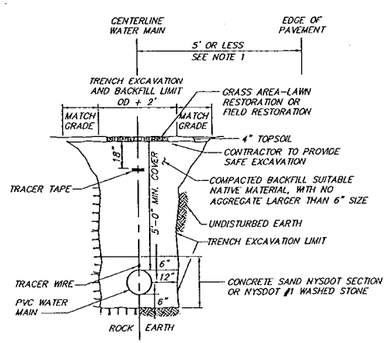
TOWN OF BATAVIA
WATER DETAILS



NOTES:
1) EXISTING ROAD, SHOULDER, AND DRIVEWAY SECTIONS WHICH ARE DISTURBED SHALL BE REPLACED IN KIND USING THE VARIOUS STAGE SECTION EXISTING AND NEW ASPHALT SURFACES SHALL BE PRIMED AND SEALED WITH ASPHALT FILLER CORRESPONDING TO THE MATERIAL REQUIREMENTS OF NYSDOT MATERIAL DESIGNATION 702-03 OR 702-14.01. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE SPECIFIED MAIN ITEMS.
2) REFER TO MATERIAL LIST, W-03.

ROAD, SHOULDER, AND DRIVEWAY TRENCH DETAILS
N.T.S.

ISSUE DATE: JUNE 2015		TOWN OF BATAVIA
DATE	COMMENTS	WATER DETAILS
REVISIONS		ROAD/DRIVEWAY TRENCH DETAIL
		DRAWING W-16



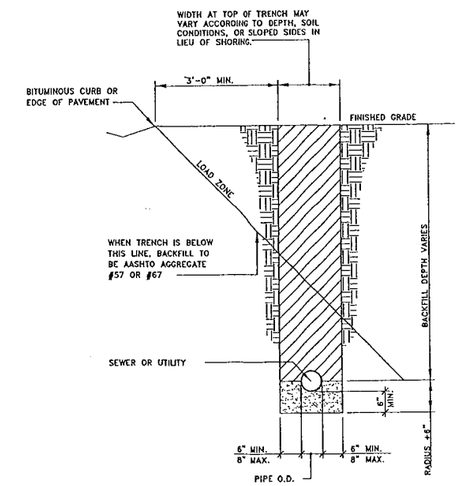
NOTE:
1) WATER MAIN PLACED 5 FEET OR LESS FROM CENTERLINE OF WATER MAIN TO EDGE OF ASPHALT PAVEMENT (EITHER ROAD OR SHOULDER) SHALL MEET THE BACKFILL REQUIREMENTS OF ROAD, SHOULDER AND DRIVEWAY TRENCH DETAILS.
2) REFER TO MATERIAL LIST, W-03.

FIELD/LAWN AREA TYPICAL TRENCH
N.T.S.

ISSUE DATE: JUNE 2015		TOWN OF BATAVIA
DATE	COMMENTS	WATER DETAILS
REVISIONS		LAWN/FIELD AREA TRENCH DETAIL
		DRAWING W-17

CONDITION	SCHEMATIC	REQUIREMENTS
I WATER LINE ABOVE SEWER LINE	WL MORE THAN 18-INCHES SL	1. Water line and sewer line pipe lengths to be centered of crossing. Each length of pipe to be 10-feet minimum.
II WATER LINE ABOVE SEWER LINE	WL MORE THAN 12-INCHES & LESS THAN 18-INCHES SL	1. Water line and sewer line pipe lengths to be centered of crossing. Each length of pipe to be 10-feet minimum. 2. When both water line and sewer line are new, sleeve sewer line with steel casing for 10-feet each side of crossing. 3. Or when one line is existing, sleeve pipe being installed with steel casing for 10-feet each side.
III SEWER LINE ABOVE WATER LINE	SL MORE THAN 12-INCHES WL	1. Water line and sewer line pipe lengths to be centered of crossing. Each length of pipe to be 10-feet minimum. 2. Sleeve sewer line with steel casing for 10-feet each side of crossing. If sewer line is new. 3. Provide cradle of concrete or crusher run stone (see trench detail below) for water line and sewer line for 10-feet each side of crossing.
KEY: WL = Water Line SL = Sewer Line D = Diameter In no case shall the pipes be closer than 12-inches apart. Distances are measured between outsides of pipe.	CARELFULLY TAMPED BACKFILL; CONCRETE CRADLE OR CRUSHER RUN STONE; D; D PLUS 8-INCHES; Xo Xo 4-INCH MINIMUM	

WATER MAIN/SEWER CROSSING



BEDDING:
THE BEDDING SHALL HAVE A MINIMUM DEPTH OF (6) SIX INCHES BELOW ALL PIPE AND SHALL BE BACK FILLED WITH AASHTO #57 OR #67 (12) TWELVE INCHES BELOW ALL PIPE IN ROCK, THEN EXTENDED UP THE HAUNCHES TO THE SPRINGLINE OF THE PIPE.

BACKFILL:
ALL STREET AND PARKING AREA CROSSING SHALL BE BACKFILLED TO SUBGRADE WITH AASHTO AGGREGATE #57 OR #67. IN ALL OTHER TRENCH AREAS BACKFILL FROM THE SPRINGLINE TO (1) ONE FOOT ABOVE THE TOP OF PIPE TO BE SELECTED MATERIAL (SELECTED MATERIAL IS FINELY DIVIDED MATERIAL FREE OF DEBRIS, ORGANIC MATERIAL, AND STONES), TAMPED IN (4) FOUR INCH LIFTS: THEN THE REMAINING BACKFILL FROM THE TRENCH MAY BE PLACED.

TRENCHING AND BEDDING DETAIL NTS

CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON JOB

NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS IN VIOLATION OF SECTION 7209 PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Revisions:

Revision Number	Date	

Project:
L & M SPECIALTY FABRICATION
EAST SAILE DRIVE
TOWN OF BATAVIA, GENESEE COUNTY, NY

Title:
UTILITY DETAILS

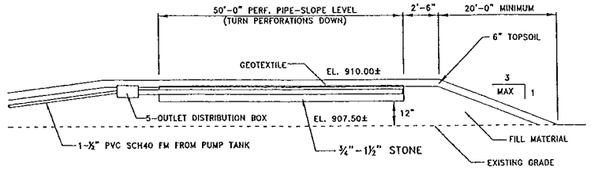
STATE OF NEW YORK
PAUL D. McCARTHY
NO. 074178
Licensed Professional Engineer

PDM ENGINEERS
115 Grandview Terrace
Batavia, NY 14020
Tel: 585 345-1159
Email: pdmeng@empiraccess.net

Date: AUGUST 2016
Scale: AS SHOWN
Designed by: PDM
Drawn by: DTD
Checked by: PDM

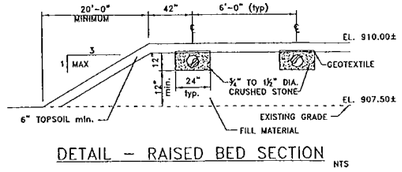
Drawing No.:
C8-2816

©2016, PDM Engineers



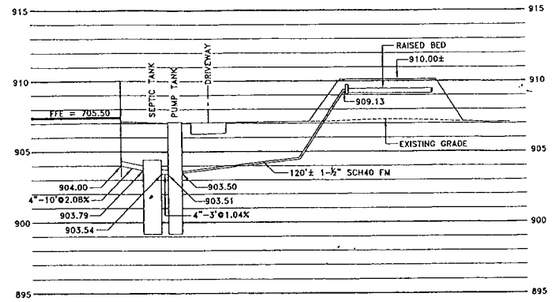
LONGITUDINAL SECTION

NTS



DETAIL – RAISED BED SECTION

NTS



HYDRAULIC PROFILE

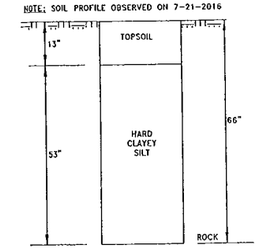
SCALE: 1" = 50' H
5' V

	HOLE DEPTH	TEST RUN 1	2	3
PERC HOLE P1	12"	5 MIN	15 MIN	19 MIN
PERC HOLE P2	12"	4 MIN	16 MIN	18 MIN

TEST WAS CONDUCTED ON 7-27-2016 USING 12" ø HOLES

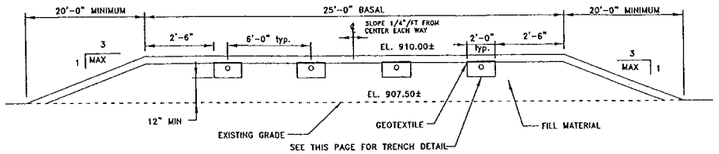
PERC TEST DATA

NOTE: SOIL PROFILE OBSERVED ON 7-21-2016



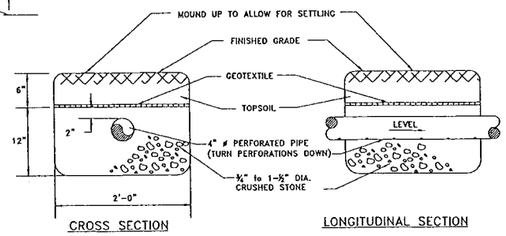
TEST HOLE PROFILE

NTS



LATERAL SECTION

NTS



CROSS SECTION

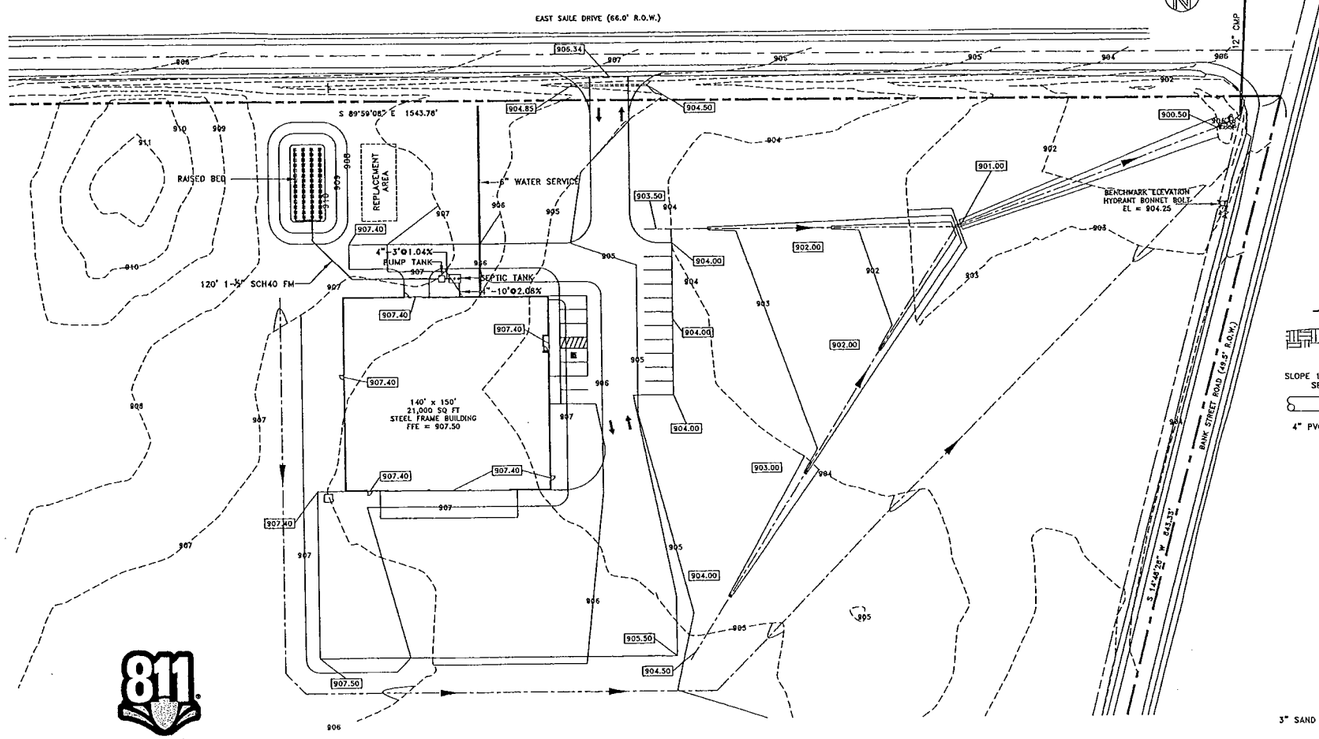
LONGITUDINAL SECTION

DETAIL – RAISED BED TRENCH

NTS

NOTE:

THE DATA SHOWN ON THIS DRAWING PERTAINING TO THE CONTOURS WERE PREPARED BY WELCH & O'DONOGHUE LAND SURVEYORS THESE DATA ARE NOT TO BE CONSIDERED NOR THEY INTENDED TO BE A SUBSTITUTE FOR THOSE SURVEYS THAT THE CONTRACTOR SHOULD HAVE MADE PREPARING FOR THE CONSTRUCTION OF THIS PROJECT. SHOULD THE CONTRACTOR FIND CONDITIONS SUBSTANTIALLY DIFFERENT FROM THOSE SHOWN ON THIS DRAWING, HE WILL CONTACT THE ENGINEER WHO WILL REVIEW THE CONTRACTOR'S DATA AND DETERMINE WHETHER ANY CHANGES ARE NECESSARY ON THE DRAWING AND IN THE ENGINEERING REPORT.



SITE PLAN

SCALE: 1" = 50'

Know what's below.
Call before you dig.

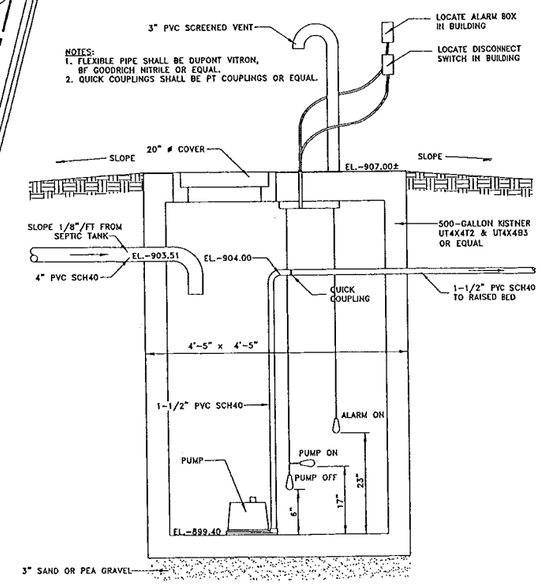
NOTES AND SPECIFICATIONS

THE DRAWINGS AND SPECIFICATIONS FOR THIS WASTE DISPOSAL SYSTEM WERE PREPARED IN ACCORDANCE WITH NYS DOH AND NYS DEC STANDARDS. THERE ARE NOT ANY GUARANTEES, EITHER EXPRESSED OR IMPLIED BY THE ENGINEER OR BY THE GENESEE COUNTY HEALTH DEPARTMENT (GCHD) THAT THIS SYSTEM WILL PERFORM IN ITS INTENDED MANNER FOR ANY LENGTH OF TIME WHATSOEVER. THE DESIGN IS IN ACCORDANCE WITH ACCEPTED PRACTICES AND DESIGN STANDARDS. ANY APPROVALS SHOWN HEREIN INDICATE ONLY THAT ACCEPTED DESIGN PROCEDURES AND STANDARDS HAVE BEEN FOLLOWED AND NOT IN ANY WAY DOES THE APPROVAL INDICATE ADEQUACY OR GUARANTEE OF THE SYSTEM.

SPECIFICATIONS

1. SEPTIC TANK: 1,000-GALLON FOR THE 15-FARM EQUIPMENT MANUFACTURING FACILITY ACCEPTABLE TO THE GCHD. IT IS REQUIRED THAT THE SEPTIC TANK BE EQUIPPED WITH A ZABEL EFFLUENT FILTER OR EQUAL.
2. THE 4'x4' PUMP TANK AND SEPTIC TANK SHALL BE SET ON A BED OF SAND OR PEA GRAVEL AT LEAST 3-INCHES THICK.
3. HEADERS: 4-INCH PVC LAID WITH TIGHT JOINTS AT A SLOPE OF 1/8-INCH PER FOOT.
4. THE RAISED BED SHALL CONSIST OF FOUR (4) RUNS, 50'-0" IN LENGTH OF PERFORATED PIPE AT 6'-0" CENTER TO CENTER INSTALLED LEVEL
5. ANY PORTION OF THE WASTE DISPOSAL SYSTEM SHALL BE AT LEAST 100' FROM ANY WELL, STREAM, POND OR WETLANDS 100' BUFFER AREA, 20' FROM ANY DRAINAGE DITCH OR DRAIN TILE, 20' FROM ANY BUILDING FOUNDATION WALL, 10' FROM ANY WATER MAIN OR PROPERTY LINE.
6. THE SEPTIC TANK SHALL BE AT LEAST 50' FROM ANY WELL OR POND, 10' FROM ANY FOUNDATION WALL, 5' FROM ANY BUILDING FLOOR SLAB.
7. ALL STORM WATER INCLUDING SUMP DRAINS SHALL BE DIRECTED AWAY FROM THE WASTE DISPOSAL BED.
8. THE DISTRIBUTION BOX SHALL BE SET ON A BED OF SAND OR PEA GRAVEL AT LEAST 12-INCHES THICK. THE INVERTS OF ALL PIPES LEADING FOR THE DISTRIBUTION BOX SHALL BE AT THE SAME LEVEL. THERE SHALL BE SUFFICIENT WATER AVAILABLE AT THE TIME OF INSPECTION FOR USE BY THE INSPECTOR IN CHECKING THE EVENNESS OF THE INVERTS.
9. ALL HEAVY EQUIPMENT IS TO BE KEPT OFF THE AREA OF THE WASTE DISPOSAL BED.
10. THIS SYSTEM SHALL NOT BE INSTALLED WHEN SOIL CONDITIONS ARE WET OR FROZEN.
11. FINAL INSPECTION SHALL BE MADE BY THE GCHD AND A REPRESENTATIVE OF THE ENGINEERS OFFICE BEFORE THE SYSTEM IS COVERED.
12. DESIGN STANDARDS, USING WATER SAVING DEVICES: 15-EMPLOYEES = 225 GPD

NOTES:
1. FLEXIBLE PIPE SHALL BE DUPONT VITRON, BF GOODRICH NITRILE OR EQUAL.
2. QUICK COUPLINGS SHALL BE PT COUPLINGS OR EQUAL.



SECTION -EFFLUENT PUMP TANK

NTS

CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON JOB

NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS IN VIOLATION OF SECTION 7209 PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Revisions:

Revision Number	Date	

Project:
L & M SPECIALTY FABRICATION
EAST SAILE DRIVE
TOWN OF BATAVIA, GENESEE COUNTY, NY

Title:
WASTE TREATMENT SYSTEM

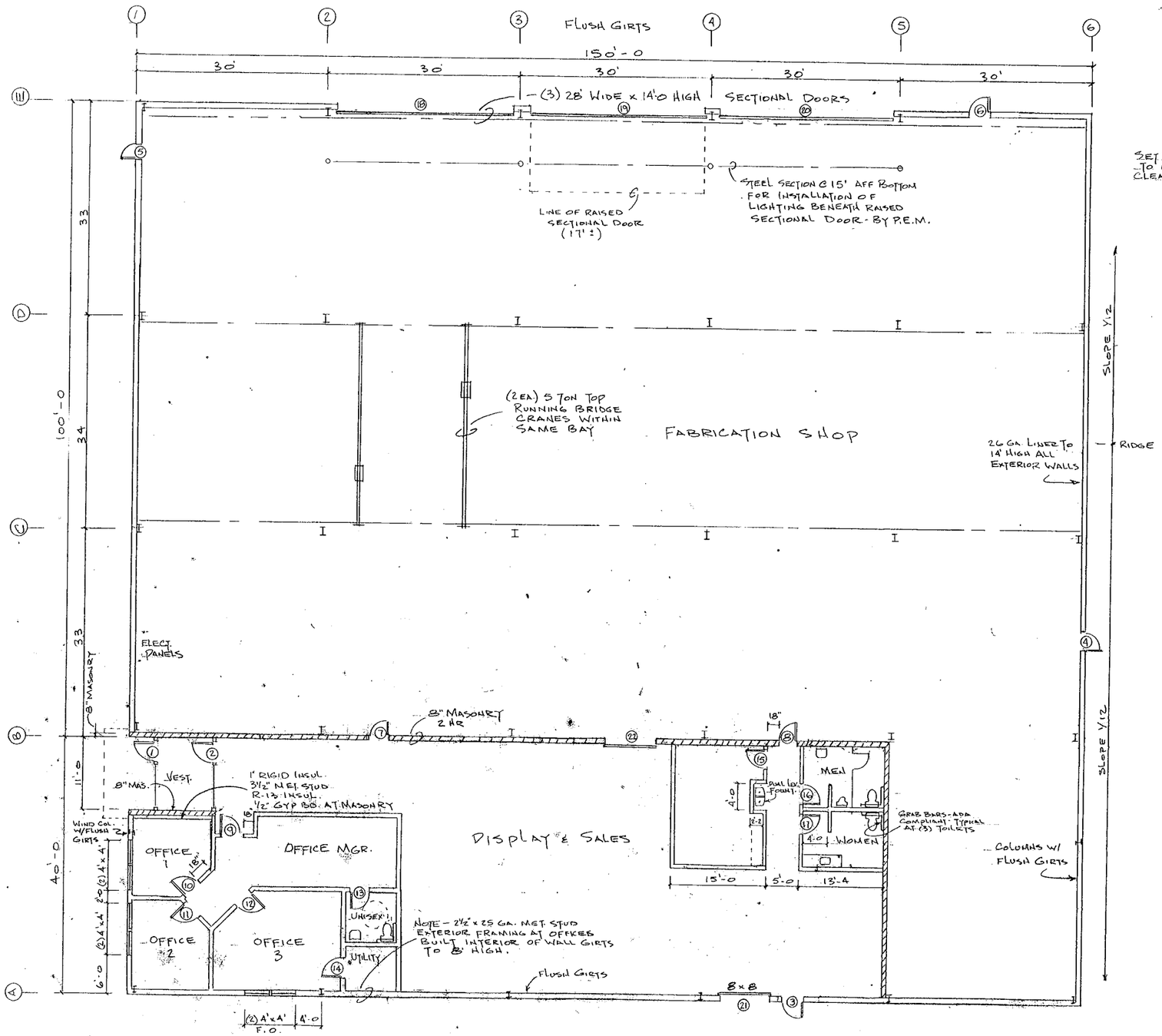
STATE OF NEW YORK
PAUL D. McCARTHY
No. 074178
Licensed Professional Engineer

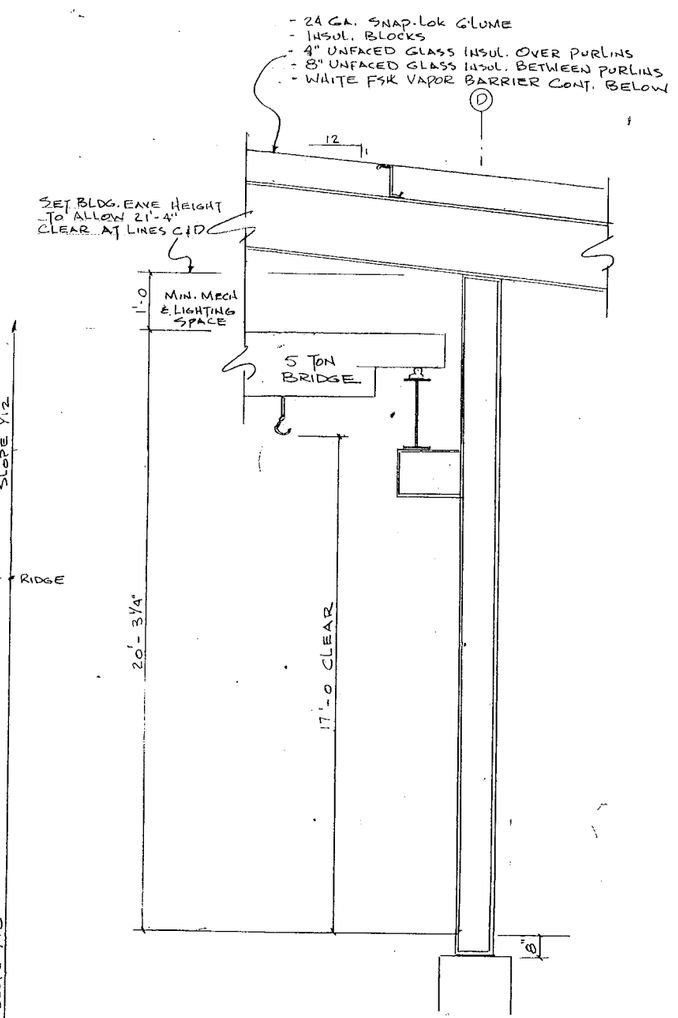
PDM
ENGINEERS
115 Grandview Terrace
Batavia, NY 14020
Tel: 585 345-1159
Email: pdmeng@empireaccess.net

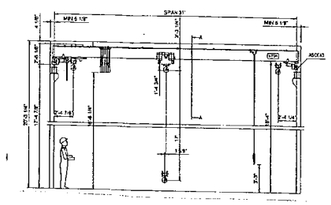
Date: AUGUST 2016
Scale: AS SHOWN
Designed by: PDM
Drawn by: DTD
Checked by: PDM

Drawing No.:
C9-2816

©2016, PDM Engineers







SECTION AT BRIDGE CRANE

SAILE DRIVE, LLC

EAST SAILE DRIVE — BATAVIA, NY

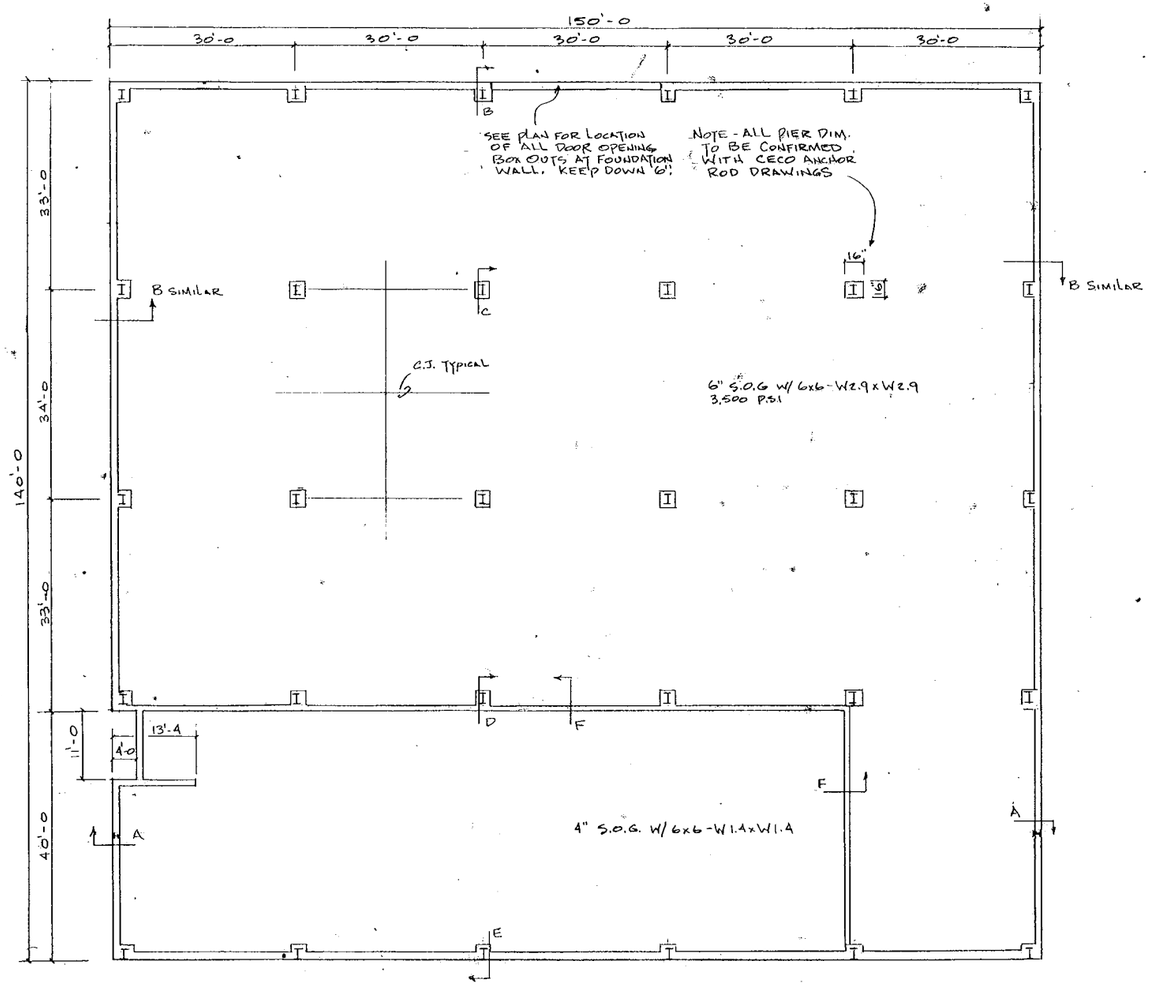
FLOOR PLAN

DATE: AUGUST 12,2016

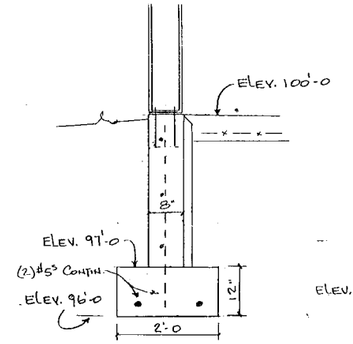
SCALE:

DWG. NO. A - 1

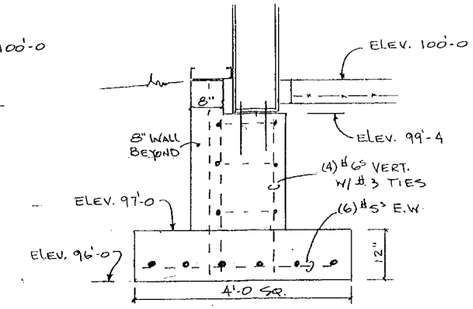
D.A. TUFTS CO., INC. - CONTRACTOR



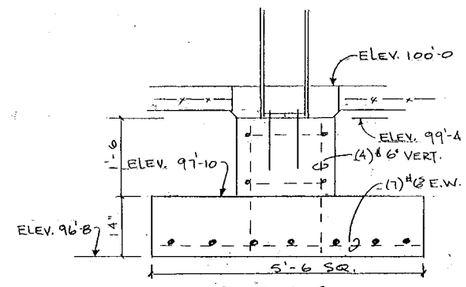
NOTE- SEE PRE-ENG. ANCHOR ROD DRAWINGS FOR COORDINATION OF FOUNDATIONS AND COLUMNS.



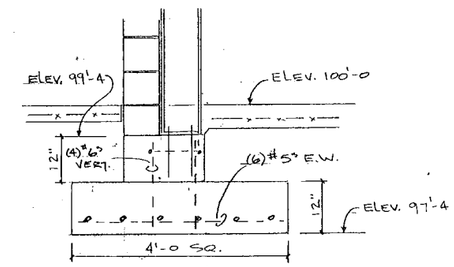
SECTION A
AT WIND COLUMNS



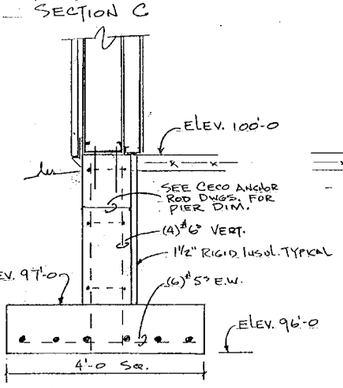
SECTION B



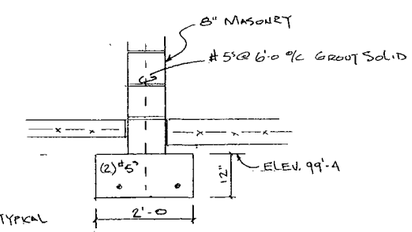
SECTION C



SECTION D



SECTION E



SECTION F

PRE-ENGINEERED BUILDING
BUILDING STRUCTURAL STEEL COMPONENTS ARE TO BE DESIGNED BY THE BUILDING SUPPLIER IN ACCORDANCE WITH PROVISIONS OF THE 9TH EDITION OF AISC, THE 2010 BUILDING CODE OF NEW YORK STATE AND THE FOLLOWING CRITERIA:

OCCUPANCY CATEGORY	NORMAL OCCUPANCY
ROOF LIVE LOAD	20 P.S.F.
ROOF COLLATERAL LOAD	5 P.S.F.
GROUND SNOW LOAD	50 P.S.F.
RAIN ON SNOW	4 P.S.F.
WIND SPEED	90 M.P.H.
SEISMIC	SS-26.60 S1-6.00

VERTICAL AND HORIZONTAL REACTIONS AT COLUMN BASES TO BE SUPPLIED BY PRE-ENGINEERED BUILDING MFG. AND CONFIRMED BY PROJECT ENGINEER TO CONFORM WITH FOUNDATION DESIGN.

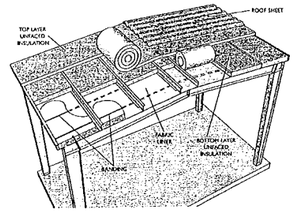
SAILE DRIVE, LLC

EAST SAILE DRIVE — BATAVIA, NY

FOUNDATION PLAN

DATE: AUGUST 12,2016
SCALE:
DWG. NO. A-2

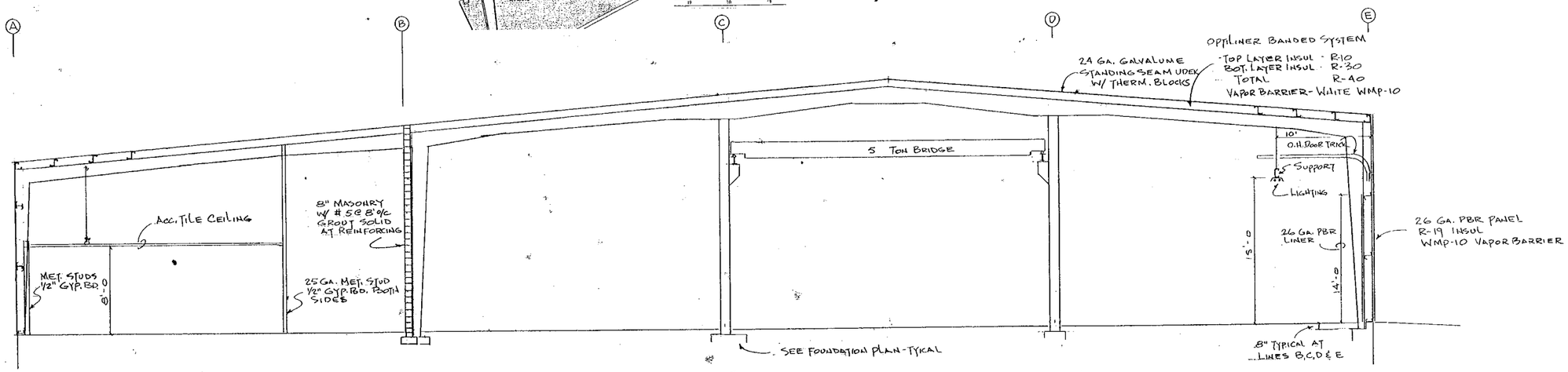
D.A. TUFTS CO., INC. - CONTRACTOR



Roof Systems

Top Layer Insulation R-Value	Bottom Layer Insulation R-Value	Insulation Total R-Value
10	19	29
11	19	30
12	19	31
13	25	38
14	19	33
15	25	40
13	25	38
14	25	39
15	25	40
→ 10	30	40
11	30	41
12	30	42
13	30	43
14	25	39
14	30	43
15	30	45

THIS STRUCTURE HAS BEEN DESIGNED IN COMPLIANCE WITH THE ENERGY CONSERVATION CODE OF NEW YORK STATE 90.1 (2010). COMPLIANCE CERTIFICATE SUBMITTED UNDER SEPARATE COVER.



SECTION

DOOR SCHEDULE

Door No.	Key Group	Location Outside	Location Inside	Size	Material Door/Frame	Type	Label	Frame Size	Hand	Closer	Latch	Stop	Comments
1		Exterior	Foyer	3'-0 x 7'-0	HM x HM	A	-	5 3/4	RH	x	Exit Device		
2		Foyer	Display	3'-0 x 7'-0	HM x HM	A	-	5 3/4	RH	x	Exit Device		
3		Exterior	Display	3'-0 x 7'-0	HM x HM	B	-	5 3/4	RH	x	Exit Device		
4		Exterior	Shop	3'-0 x 7'-0	HM x HM	B	-	5 3/4	RH	x	Exit Device		
5		Exterior	Shop	3'-0 x 7'-0	HM x HM	B	-	5 3/4	RH	x	Exit Device		
6		Exterior	Shop	3'-0 x 7'-0	HM x HM	B	-	5 3/4	RH	x	Exit Device		
7		Shop	Display	3'-0 x 7'-0	HM x HM.	C	1 ¾	5 3/4	RH	x	Passage		
8		Display	Shop	3'-0 x 7'-0	HM x HM	C	1 ¾	5 3/4	LH	x	Passage		
9		Display	Office M.	3'-0 x 7'-0	HM x HM.	D	-	4 5/8	LH		Entry Lever		
10		Office 1	Office M	3'-0 x 7'-0	HM x HM	D	-	4 5/8	LH		Entry Lever		
11		Office 2	Office M	3'-0 x 7'-0	HM x HM M.	D	-	4 5/8	RH		Entry Lever		
12		Office 3	Office M	Pr. 2'8 x 7'-0	HM x HM	D	-	4 5/8	L.H.		Entry Lever		
13		Unisex	Office M	3'-0 x 7'-0	HM x HM	D	-	4 5/8	RH		Privacy		
14		Office 3	Utility	3'-0 x 7'-0	HM x HM	D	-	4 5/8	LH		Passage		
15		Break Rm	Hall	3'-0 x 7'-0	HM x HM	D	-	4 5/8	RH	x	Push/Pull	-	
16		Men	Hall	3'-0 x 7'-0	HM x HM	D	-	4 5/8	RH	x	Push/Pull	-	
17		Women	Hall	3'-0 x 7'-0		D	-	4 5/8	LH	x	Privacy		
18		Exterior	Shop	28'-0 x 14'	Insul Steel	E	-	-	-				Elect Op.
19		Exterior	Shop	28'-0 x 14'	Insul Steel	E	-	-					Elect Op.
20		Exterior	Shop	28'-0 x 14'	Insul. Steel	E	-	-					Elect Op.
21		Exterior	Display	8'-0 x 8'-0	Insul. Steel	E	-	-					Manual
22		Shop	Display	8'-0 x 8'-0	Rolling Steel	F	1 ½	8" Mas.					Chain Op.

Type A – ¾ Insul Glass Style G x Integral Sidelight Matching Glass Height x Mas. Anchors

Type B – Flush Insulated x E.O. Bolts

Type C – Flush x 1 ½ hr Rated x 4" Welded Head x Masonry Anchors

Type D – Flush x Drywall Frame

Type E – Insulated Steel Sectional x 4' Bft clearance

Type F – Rolling Steel x 1 ½ Hr. Rated x Chain Operated

SPECIAL INSPECTIONS

TABLE 1704.4
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	BC-NYS REFERENCE
1. Inspection of reinforcing steel, including prestressing tendons, and placement.		X	ACI 318: 3.5, 7.1-7.7	1903.5, 1907.1, 1907.7, 1914.4
2. Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5B.			AWS D1.4 ACI 318: 3.5.2	1903.5.2
3. Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased.	X			1912.5
4. Verifying use of required design mix.		X	ACI 318: Ch. 4, 5.2-5.4	1904, 1903.2-1905.4, 1914.2, 1914.3
5. Sampling fresh concrete and performing slump, air content and determining the temperature of fresh concrete at the time of making specimens for strength tests.	X		ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1905.6, 1914.10
6. Inspection of concrete and shotcrete placement for proper application techniques.	X		ACI 318: 5.9, 5.10	1905.9, 1905.10, 1914.6, 1914.7, 1914.8
7. Inspection for maintenance of specified curing temperature and techniques.		X	ACI 318: 5.11-5.13	1905.11, 1905.13, 1914.9
8. Inspection of prestressed concrete: a. Application of prestressing forces. b. Grouting of bonded prestressing tendons in the seismic-force-resisting system.	X X		ACI 318: 18.18 ACI 318: 18.16.4	
9. Erection of precast concrete members.		X	ACI 318: Ch. 16	
10. Verification of in-situ concrete strength, prior to stressing of tendons in posttensioned concrete and prior to removal of shores and forms from beams and structural slabs.		X	ACI 318: 6.2	1906.2

TABLE 1704.3
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD[a]	BC-NYS REFERENCE
1. Material verification of high-strength bolts, nuts and washers: a. Identification markings to conform to ASTM standards specified in the approved construction documents. b. Manufacturer's certificate of compliance required.	—	X	Applicable ASTM material specifications; AISC ASD, Section A3.4; AISC LRFD, Section A3.3	—
2. Inspection of high-strength bolting: a. Bearing-type connections. b. Slip-critical connections.	X	X X	AISC LRFD Section M2.5	1704.3.3
3. Material verification of structural steel: a. Identification markings to conform to ASTM standards specified in the approved construction documents. b. Manufacturers' certified mill test reports.	—		ASTM A 6 or ASTM A 568 ASTM A 6 or ASTM A 568	1708.4
4. Material verification of weld filler materials: a. Identification markings to conform to AWS specification in the approved construction documents. b. Manufacturer's certificate of compliance required.	—	—	AISC, ASD, Section A3.6; AISC LRFD, Section A3.5	—
5. Inspection of welding: a. Structural steel: 1) Complete and partial penetration groove welds. 2) Multi-pass fillet welds. 3) Single-pass fillet welds > 5/16" 4) Single-pass fillet welds < 5/16" 5) Floor and deck welds. b. Reinforcing steel: 1) Verification of weldability of reinforcing steel other than ASTM A 706. 2) Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls and shear reinforcement. 3) Shear reinforcement. 4) Other reinforcing steel.	X X X X X X X X	X X X	AWS D1.1 AWS D1.3 AWS D1.4 ACI 318: 3.5.2	1704.3.1 1903.5.2
6. Inspection of steel frame joint details for compliance with approved construction documents: a. Details such as bearing and stiffening. b. Member locations. c. Application of joint details at each connection.	—	X	—	1704.3.2

SAILE DRIVE, LLC

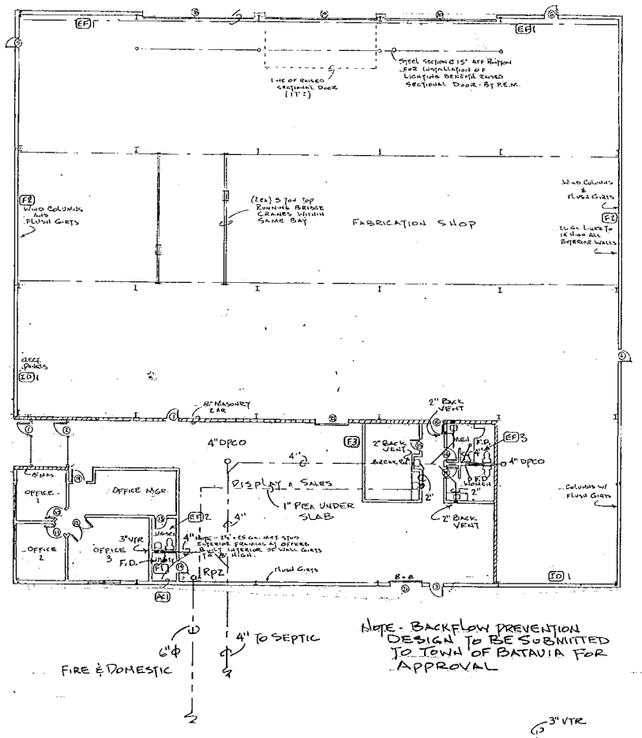
EAST SAILE DRIVE — BATAVIA, NY

BUILDING SECTION

DATE: AUGUST 12,2016 — DWG. NO. A-3

SCALE:

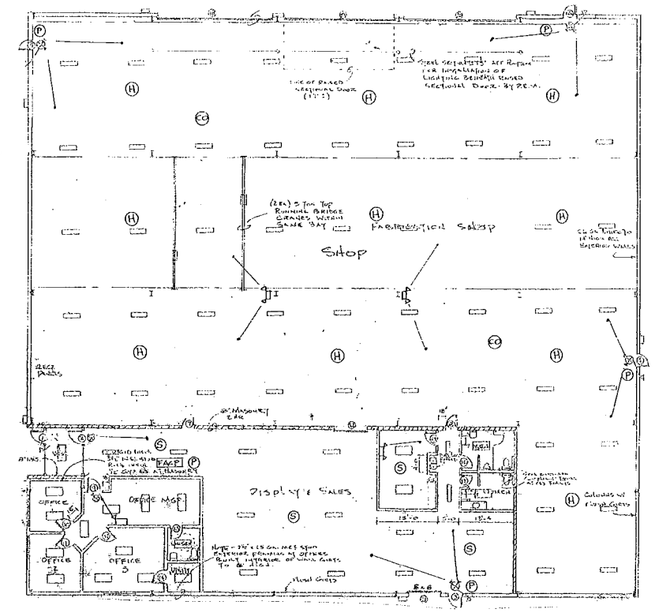
D.A. TUFTS CO., INC. - CONTRACTOR



NOTE - BACKFLOW PREVENTION DESIGN TO BE SUBMITTED TO TOWN OF BATAVIA FOR APPROVAL

HVAC EQUIPMENT

	QTY	ITEM	MODEL
F-1	1	LUXAIRE FURNACE	TM9T080C16MP11
F-2	2	CAMBRIDGE SPACE HEATER	S400
F-3	1	LUXAIRE HORZ. FURNACE	TM9T080B12MP11
AC-1	1	LUXAIRE AIR CONDITIONER	TCJD42S4354
EF-1	2	GREENHECK EXHAUST FAN	SBE12-42-50"
EF-2	1	BROAN EXHAUST FAN	671
EF-3	1	SOLER & PALAU IN-LINE EXHAUST FAN	TD200
ID-1	2	GREENHECK MOTORIZED INTAKE DAMPER	VCD-23



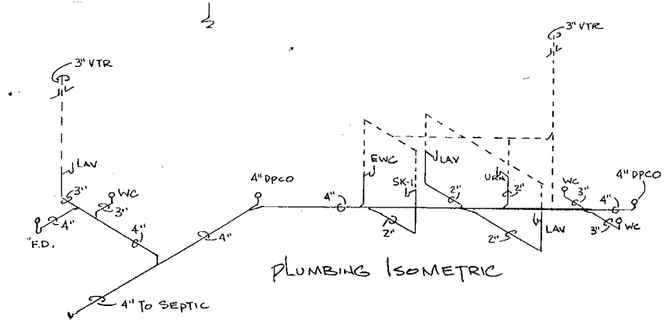
LIGHTING & ALARM PLAN

NOTE - PROVIDE MULTIPLE CIRCUITS FOR SWITCHING OF LIGHTING WITHIN SHOP AREA.

PROVIDE OCCUPANCY SENSING SWITCHING OF LIGHTS IN OFFICE AND TOILET ROOMS

		ITEM	MODEL
	LF-1	SIMKAR LENSED TROFFER 2X4	TY81132
	LF-2	RAB HIGH BAY FLOUR.	RB4TS
	LF-3	RAB EXTERIOR WALL PACK	WP2LED37
	EL-1	NICOR EMERGENCY LIGHT	EMLI-10-UNV-WH
	EX-1	NICOR EM. COMBO LIGHT/EXIT	ECLI-10-UNV-WH
	EL-2	NICOR EM. LIGHT REMOTE	RHI

LIGHTING FIXTURES



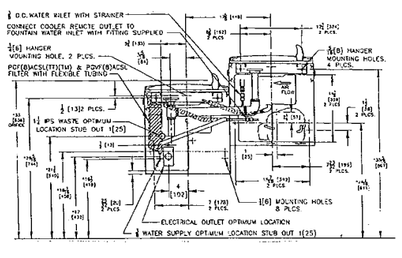
PLUMBING ISOMETRIC

FIRE PROTECTION

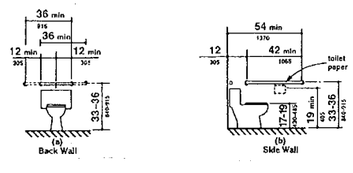
INSTALL WET-TYPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA-13 2007 AND THE 2010 FIRE CODES OF NEW YORK STATE. PLANS AND HYDRAULIC CALCULATIONSTO BE DESIGNED BY NICET LEVEL III SPRINKLER DESIGNER AND SUBMITTED TO TOWN OF BATAVIA SUBSEQUENT TO THIS BUILDING PLAN.

FIRE ALARM SYSTEM

FACP	CONTROL PANEL
S	SMOKE DETECTOR
H	HEAT DETECTOR
P	PULL STATION
CO	CO DETECTOR
	HORN STROBE
	STROBE ONLY
	FLOW SWITCH MONITOR
	PRESSURE SWITCH MONITOR



DUAL LEVEL WATER FOUNTAIN



GRAB BAR MOUNTING SIZE & LOCATION

SAILE DRIVE, LLC

EAST SAILE DRIVE — BATAVIA, NY

BUILDING SYSTEMS

DATE: AUGUST 12,2016 — DWG. NO. A-5

SCALE:

D.A. TUFTS CO., INC. - CONTRACTOR

T-17-BAT-9-16